INTERIM DELIVERABLE

Former 3-D Oil Distribution Facility

Additional Assessment - Monitor Well Installation, Survey and Groundwater Sampling

Task Assignment BF 004E

& Correspondence

TASK ASSIGNMENT NOTIFICATION FORM
DEP CONTRACT NO. HW-556

Task Assignment #: BF004E Module #: SRPPM Grant #: SRP13
Contractor Name: Cardno
Contractor Representative: Roger Register Phone #: (850) 556-1369
DEP Contract Manager: Carrie Kruchell, P.G. Phone #: 850-245-8765
DEP Site #: ERIC _5549
Site Name: Former 3-D Oil Site
Address(Street, City, County): 1744 Segrave Street, South Daytona, Volusia County, Florida
Phase: Additional Assessment: Monitor Well Installation, Survey and Groundwater Sampling

Task Description [use additional pages if necessary]:

n accordance with the Technical Scope & Proposal submitted by Cardno 12-5-17 with revisions through 12-13-17, this Task Order entails: Project Management (Subtask 1), a Site Visit and completion of a site assessment work plan & Health and Safety Plan (Subtask 2), Monitor well installation, a site boundary & monitor well survey, collection of water level data and determination of Groundwater elevations (Subtask 3); Monitor well and Direct Push Technology sampling and analysis (SubTask 4) and the completion of a Site Assessment Report

The Deliverable and Invoice Schedule is attached.

Final Deliverable: Site Assessment Report
Final Deliverable Due Date: 02/15/2018

Period of Performance:
Execution of Task Assignment through: 04/15/2018

TASK ASSIGNMENT TYPE AND NOT TO EXCEED AMOUNTS:

FIXED PRICE	FEE SCHEDULE	COST PLUS FIXED FEE	
		COST REIMBURSEMENT	FIXED FEE
$ 30,485.19			

RETAINAGE: _____

TOTAL TASK ASSIGNMENT VALUE: $ 30,485.19

DEP Task Manager: Carrie Kruchell Digitally signed by Carrie Kruchell Date: 2017.12.13 13:20:23 -05'00'

DEP Contract Manager: Carrie Kruchell Digitally signed by Carrie Kruchell Date: 2017.12.13 09:37:37 -05'00'

Contractual Authority: Teresa Booeshaghi Digitally signed by Teresa Booeshaghi Date: 2017.12.14 16:21:34 -05'00'

Contractor Representative: W. Bruce Moore, P.G. Digitally signed by W. Bruce Moore, P.G. Date: 2017.12.15 11:41:39 -05'00'

CC: Procurement Section (MS93)
Section Representative _____

Task Assignment Notification/Change Order
Deliverables and Invoice Schedule Attachment

Contract Number: HW-556
Task Assignment #: BF004E

Deliverables:

Deliverable	Deliverable Due Date
Site Assessment Workplan and Health and Safety Plan	01/02/2018
Field notes, monitor well completion reports, water level data, site boundary and groundwater elevation survey findings	01/17/2018
Field notes, monitor well sampling reports, and groundwater sample laboratory reports	01/31/2018
Site Assessment report	02/15/2018

Invoice Schedule:

Requirements for Invoice Submittal	Amount to be Invoiced
Approval of Site Assessment Workplan and Health and Safety Plan (Subtask 2)	$ 4,842.44
Approval of field notes, monitor well completion reports, water level data, site boundary and groundwater elevation survey findings (Subtask 3)	$ 7,521.25
Approval of field notes, groundwater sampling logs, and laboratory COC & laboratory analytical report (Subtask 4)	$ 12,428.91
Approval of Final Site Assessment Report (Subtasks 1 & 5)	$ 5,692.59
TOTAL COST	$ 30,485.19

December 13, 2017

Cardno

2420 West Lakeshore Drive
Suite 100
Tallahassee, FL 32312
USA
Phone 850 385 8232

www.Cardno.com

Carrie L. Kruchell, P.G.
Environmental Manager
Brownfields and CERCLA Administration
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 4535
Tallahassee, FL 32399

RE: Technical Scope of Services & Cost Estimate
Monitor Well Installation, Survey & Groundwater Sampling
Former 3D Oil Distribution Facility
1744 Segrave Street
South Daytona, Volusia County, Florida
Parcel ID No. 44-15-33-01-04-0010
Facility ID No. 8517537

Dear Ms. Kruchell:

Cardno is pleased to present to the Florida Department of Environmental Protection (FDEP) this cost proposal for a site visit, preparation of a work plan and health and safety plan (HASP), to conduct a comprehensive professional survey, installation of two (2) shallow permanent monitor wells, collection of groundwater elevation measurements and groundwater sampling of the two (2) newly installed and fourteen (14) existing wells. Additionally, eleven (11) borings will be advanced to the water table in pre-selected locations and groundwater samples will be collected. Finally, groundwater elevation levels will be measured to calculate current and historical groundwater flow directions.

The objective of the following tasks is to determine groundwater flow direction, verify the areal extent of groundwater impacts and to demonstrate the plume remains stable and has not migrated offsite. Based on results from these assessment activities, a determination will be made whether or not additional soil removal may be warranted.

- Conduct a site visit and preparation of an OSHA-certified health and safety plan (HASP).
- Installation of two (2) shallow permanent monitor wells (MW-13 and MW-14), as shown on **Figure 1**, along the northern edge of the property to confirm groundwater flow direction and determine whether contaminated groundwater may have migrated in that direction.
- A comprehensive site boundary and monitor well survey will be conducted of the two (2) newly installed and fourteen (14) existing wells, including but not limited to top of casing elevations.
- Upon completion of the survey, groundwater elevation measurements will be recorded and potentiometric surface maps will be updated and provided for the following collection dates: April 2016, October 2016, December 2016, March 2017, and June 2017, in addition to the current site conditions (assuming December 2017).
- Groundwater samples will be collected from the following fourteen (14) existing monitor wells; MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10R, MW-11, MW-12, and two (2) deep wells DMW-1R, and DMW-2, as well as the newly installed shallow wells to be named MW-13, and MW-14.

- Concurrently, groundwater samples will be collected from eleven (11) pre-selected locations in the southern / central portion of the site to further delineate the areal extent of groundwater impacts.
- Each collected groundwater sample will be submitted to an accredited laboratory (Pace Laboratories, Inc.) for analysis of benzene, ethylbenzene, toluene, and total xylenes (BTEX) via EPA Method 8260 and polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270.

Upon completion of these supplemental site assessment activities, Cardno will prepare a site assessment report (SAR) that summarizes all of the findings and recommendations including, but not limited to tables, figures, monitor well construction logs, calibration logs, field notes, and laboratory analytical reports.

These services will be provided in accordance with the Terms and Conditions of Contract No. HW566 between FDEP and Cardno/HSW dated December 27, 2010. These services will be performed on a lump-sum basis for $ 30,485.19. The summarized cost estimate and level of effort spreadsheets are included as **Attachment A**.

We appreciate the opportunity to work with you on this project. If you have any questions, feel free to contact me at 850.661.5475 or via email at beth.norman@cardno.com.

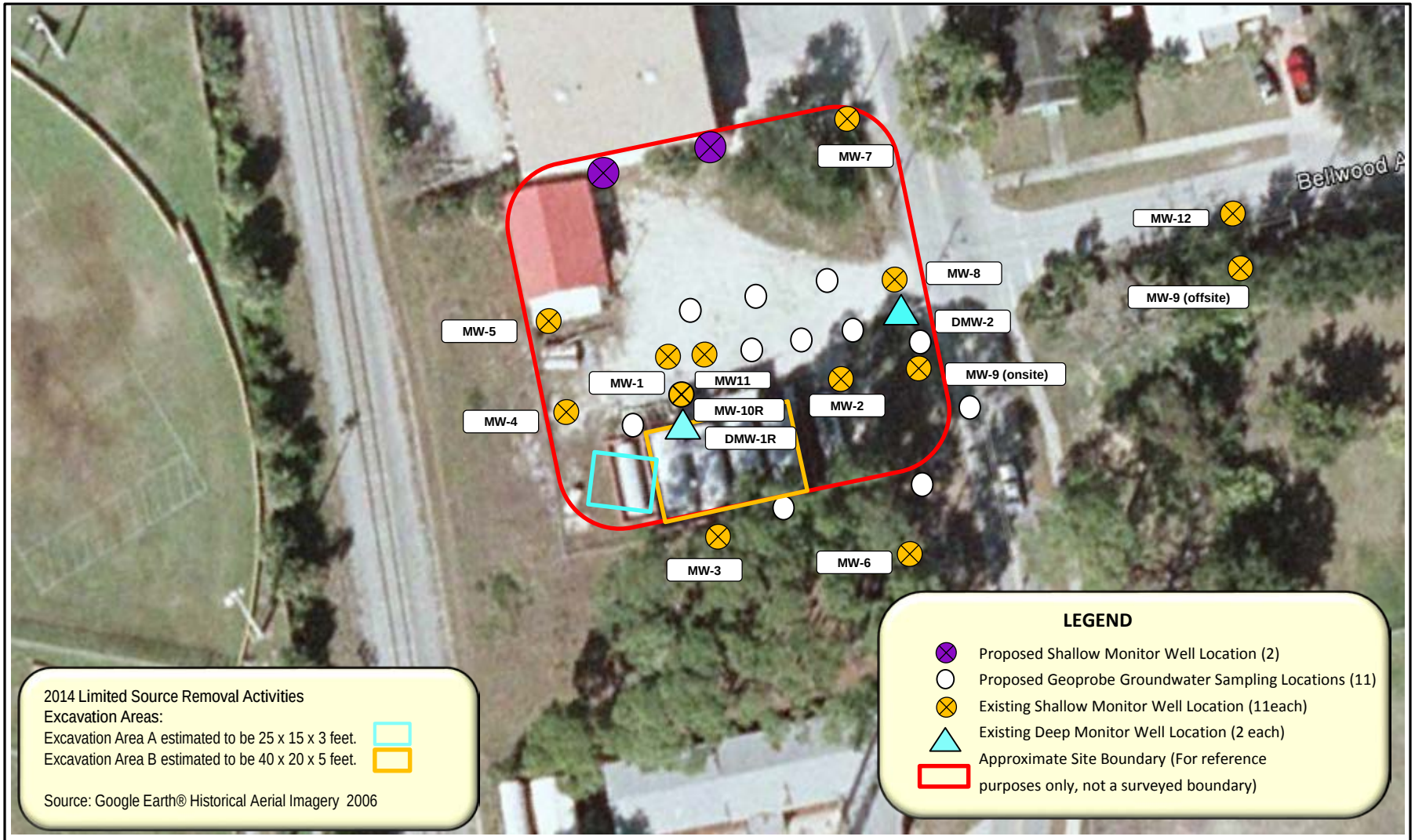
Best regards,

Beth Norman
Project Manager
for Cardno

Eric V. Meyers, P.E.
Project Engineer
for Cardno

Cc: Jim McCarthy, FDEP
Justin Cross, FDEP
Patty Rippey, City of South Daytona

Attachments



Cardno
Shaping the Future

Not to Scale

Former 3D Oil Distribution Facility
1744 Segrave Street
South Daytona, Volusia County, Florida
Parcel ID No. 44-15-33-01-04-0010
FDEP Contract No. HW-556

Figure 1
Proposed Monitoring Well Installation and Plume Delineation Map

Beth Norman

From: Kruchell, Carrie L. <Carrie.L.Kruchell@dep.state.fl.us>
Sent: Tuesday, January 16, 2018 1:01 PM
To: Beth Norman
Cc: Cross, Justin L.
Subject: RE: FDEP HW566 - Brownfields Projects Meeting Notes & Cost Proposal & Level of Effort Spreadsheet (UA CDC Group E) TA BF10A

Importance: High

Hi Beth.

Please see the changes below. Justin is working on the TACO for UACDC Groups A & C (TA BF10A) right now.

We have extended out some of the other dates as well.

With regards,

Carrie

Carrie L. Kruchell, P.G.
Environmental Manager
Brownfields and CERCLA Administration
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 4535
Room 310-D
Tallahassee, FL 32399

Carrie.L.Kruchell@dep.state.fl.us
Office: *850-245-8765*
Monday – Friday: Approx. 8:30 a.m. – 4:30 p.m.

From: Beth Norman [mailto:Beth.Norman@cardno.com]
Sent: Thursday, January 11, 2018 5:05 PM
To: Kruchell, Carrie L. <Carrie.L.Kruchell@dep.state.fl.us>; Cross, Justin L. <Justin.L.Cross@dep.state.fl.us>
Subject: FDEP HW566 - Brownfields Projects Meeting Notes & Cost Proposal & Level of Effort Spreadsheet (UA CDC Group E)

Carrie/Justin,

Thank you for meeting with me on such short notice yesterday. The following table below summarizes my understanding of our schedule deliverables and due dates, please review and confirm that my recollection is in line with yours. Upon your review and confirmation, I'll send you the final .xls tracking table for you to distribute accordingly.

I have also attached the cost estimate for conducting the additional AU CDC PHI ESA for Folio No. 35728 (Group E) assumed to be assigned TA BF011A. As discussed yesterday, Shawn Lasseter will be conducting the site visits tomorrow (January 12th) for previously tasked (Group A & Group C), and will piggy back her mobilization/site visits which will result in a reduction in labor & vehicle rental charge(s) under Subtask 2 of this attached proposal.

While the final labor rates have not been compiled for all Cardno personnel, the attached spreadsheet is consistent with the December 2017 labor rates as reflected on previously tasked TA BF010A and does not reflect the newest rates which are anticipated to be submitted in the next couple of weeks to Don Harris for approval.

Thank you for your assistance and guidance.

Best regards,
Beth

FDEP Consolidated Contract No. HW566						
Task Assignment No.	Module #	Grant #	Project Name	Tasked	Deliverable Dates	Submitted
BF004E	SRPPM	SRP13	Former 3D Oil	Site Visit Jan 10th /WorkPlan	1/30/18	
BF004E	SRPAS	SRP13	Former 3D Oil	Field Work	2/15/18	
BF004E	SRPAS	SRP13	Former 3D Oil	Final Report	3/31/18	
BF004E	SRPAS	SRP13	Former 3D Oil	Completion Date	4/15/18	
BETH, PLEASE CHANGE ALL MODULES TO SRPPM, THANKS						
Notes:						
Project Manager = Padriac Conner						

FDEP Consolidated Contract No. HW566

Task Assignment No.	Module #	Grant #	Project Name	Tasked	Deliverable Dates	Submitted
BF008A	SRPAS	SRP13	Boynton Beach	Site Recon/Work Plan	7/14/2017	✓
BF008B	SRPAS	SRP13	Boynton Beach	Field Notes/Interim Deliverable	1/9/2018	✓
BF008B	SRPAS	SRP13	Boynton Beach	Final Report	1/30/2018 actually 2/15/18	
BF008B	**SRPAS**	**SRP13**	**Boynton Beach**	**Completion Date**	**3/31/2018**	
** *No groundwater exceedances*						
Notes:						
Project Manager = Jim McCarthy						

FDEP Consolidated Contract No. HW566						
Task Assignment No.	Module #	Grant #	Project Name	Tasked	Deliverable Dates	Submitted
BF009A	SRPAS	SRP13	Tangerine Greenway	Site Recon/Work Plan	7/21/2017	✓
BF009B	SRPAS	SRP13	Tangerine Greenway	Field Notes/Interim Deliverable	11/30/2017	✓
BF009B	SRPAS	SRP13	Tangerine Greenway	Final Report	1/30/2018	
BF009B	**SRPAS**	**SRP13**	**Tangerine Greenway**	**Completion Date**	**2/15/2018**	
** *No soil exceedances*						
Notes:						
Project Manager = Jim McCarthy						

FDEP Consolidated Contract No. HW566						
Task Assignment No.	Module #	Grant #	Project Name	Tasked	Deliverable Dates	Submitted
BF010A	SRPAS	SRP13	UA CDC (Group A & Group C)	Site Visit	1/12/2018	
BF010A	SRPAS	SRP13	UA CDC (Group A & Group C)	PHI ESA/EDR Reports	1/22/2018	
BF010A	SRPAS	SRP13	UA CDC (Group A & Group C)	Final Report(s)	2/15/2018	
BF010A	**SRPAS**	**SRP13**	UA CDC (Group A & Group C)	**Completion Date**	**FROM 1/31/18 TO 2/28/2018**	
Notes:						
Project Manager = Megan R. Johnson						

FDEP Consolidated Contract No. HW566						
Task Assignment No.	Module #	Grant #	Project Name	Tasked	Deliverable Dates	Submitted
BF011A	SRPAS	SRP13	UA CDC (Group E)	Site Visit	1/12/2018	
BF011A	SRPAS	SRP13	UA CDC (Group E)	PHI ESA/EDR Report	1/22/2018	
BF011A	SRPAS	SRP13	UA CDC (Group E)	Final Report	2/15/2018	
BF011A	SRPAS	SRP13	UA CDC (Group E)	Completion Date	2/28/2018	
STILL WAITING FOR REVISED LABOR RATES or DEP CAN CREATE TA USING EXISTING RATES BY 1/17/18						
Notes:						
Project Manager = Megan R. Johnson						

Beth Norman
PROJECT MANAGER
INFRASTRUCTURE DIVISION

Cardno
Shaping the Future

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Address 2420 Lakeshore Drive, Suite 100, Tallahassee, Florida 32312
Email beth.norman@cardno.com Web www.cardno.com

CONNECT WITH CARDNO

Beth Norman

From: Kruchell, Carrie L. <Carrie.L.Kruchell@dep.state.fl.us>
Sent: Tuesday, February 06, 2018 1:31 PM
To: Beth Norman
Cc: Conner, Padraic; Cross, Justin L.
Subject: Re: Status of Field Work -----Former 3D Oil Supplemental Site Assessment - Status Update

Thanks so much.

From: Beth Norman <Beth.Norman@cardno.com>
Sent: Tuesday, February 6, 2018 12:05:42 PM
To: Kruchell, Carrie L.
Cc: Conner, Padraic; Cross, Justin L.
Subject: Status of Field Work -----Former 3D Oil Supplemental Site Assessment - Status Update

Carrie/Padraic/Justin,

Just a quick update to the field work status at the former 3D Oil Distribution Facility:

Two (2) shallow monitor wells have been installed along the northern property boundary;
all existing and newly installed wells were measured for groundwater elevations; and samples were collected;
Eleven DPT groundwater samples were collected; and all samples have been delivered to Pace Laboratories;
Survey is ongoing; expect final survey within the next five (5) days; and
No free product was observed in any of the groundwater samples.

Let me know if you have any questions or concerns.
Best regards,
Beth

Beth Norman
PROJECT MANAGER
CARDNO

Direct +1 850 385 8232 Mobile +1 850 661 5475
Address 2420 Lakeshore Drive, Suite 100, Tallahassee, Florida 32303
Email beth.norman@cardno.com Web www.cardno.com

From: Kruchell, Carrie L. [mailto:Carrie.L.Kruchell@dep.state.fl.us]
Sent: Wednesday, January 31, 2018 4:29 PM
To: Beth Norman <Beth.Norman@cardno.com>
Cc: Conner, Padraic <Padraic.Conner@dep.state.fl.us>; Cross, Justin L. <Justin.L.Cross@dep.state.fl.us>
Subject: RE: Former 3D Oil Supplemental Site Assessment - Status Update

Thanks, Beth. We totally understand.

Please proceed with installing the wells Thursday and/or Friday. Without looking back at the Work Plan, just please ensure that the screened intervals and total depths of those new wells mirror the ones that are already existing.

Talk to you tomorrow!

With regards,

Carrie

Carrie L. Kruchell, P.G.
Environmental Manager
Brownfields and CERCLA Administration
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 4535
Room 310-D
Tallahassee, FL 32399

Carrie.L.Kruchell@dep.state.fl.us
Office: *850-245-8765*
Monday – Friday: Approx. 8:30 a.m. – 4:30 p.m.

From: Beth Norman [mailto:Beth.Norman@cardno.com]
Sent: Wednesday, January 31, 2018 4:22 PM
To: Kruchell, Carrie L. <Carrie.L.Kruchell@dep.state.fl.us>
Cc: Conner, Padraic <Padraic.Conner@dep.state.fl.us>; Cross, Justin L. <Justin.L.Cross@dep.state.fl.us>
Subject: Former 3D Oil Supplemental Site Assessment - Status Update
Importance: High

Carrie/Padriac/Justin,

As discussed, I received a call from Huss Driller who notified me that they do have an opening tomorrow and Friday to install the two (2) shallow monitor wells on the northern periphery of the site and to complete groundwater collection (via DPT rig) of eleven (11) pre-selected locations as included in the work plan. I've attached the "Proposed Monitor Well Location and Sampling Plan" for your convenience.

Otherwise, they do not have an opening until the week of February 22nd. I understand that this is short notice, but under the circumstances I figured that I would at least reach out to you for guidance.

Best regards,
Beth

Beth Norman
PROJECT MANAGER
INFRASTRUCTURE DIVISION

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Address 2420 Lakeshore Drive, Suite 100, Tallahassee, Florida 32312
Email beth.norman@cardno.com Web www.cardno.com

CONNECT WITH CARDNO

INTERIM DELIVERABLE

Former 3-D Oil Distribution Facility

Additional Assessment - Monitor Well Installation, Survey and Groundwater Sampling

Well Construction Logs

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-13	3D-OIL South Daytona		1/29/18

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [ ] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: Geoprobe 7822 DT

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15	15	8 1/4	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	[x] Flush-Threaded [ ] Other (describe)	5 feet; from 0 feet to 5 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.10	10 feet; from 5 feet to 15 feet

1st Surface Casing Material: also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet; from 0 feet to ____ feet
2nd Surface Casing Material: also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet; from 0 feet to ____ feet
3rd Surface Casing Material: also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet; from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Sand	[ ] Yes [x] No	11 feet; from 4 feet to 15 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 Sand	1 feet; from 3 feet to 4 feet

Surface Seal Material:	Surface Seal Length:
Type I Grout	3 feet; from 0 feet to 3 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
1/29/2017	[ ] Surge/Pump [x] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[x] Submersible [ ] Centrifugal [ ] Peristaltic [ ] Other (describe)	6.91

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
2 gal	6 ft 0"	[ ] Yes [x] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[x] Continuous [ ] Intermittent	50	25	[ ] Yes [x] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown + Turbid; no odor	Clear / No odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-14	3D-OIL & South Daytona		1/24/2018

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Geoprobe 7822DT

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15	15	8 1/4	6	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	5 feet from 0 feet to 5 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.10	10 feet from 5 feet to 15 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Sand	☐ Yes ☐ No	11 feet from 4 feet to 15 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 Sand	1 feet from 3 feet to 4 feet

Surface Seal Material:	Surface Seal Length:
Type I Grout	3 feet from 0 feet to 3 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one): ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)
1/29/18	

Development Pump Type (check): ☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	Depth to Groundwater (before developing in feet):
	6.72

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): ☐ Yes ☐ No
2	0.0	

Pumping Condition (check one): ☐ Continuous ☐ Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one): ☐ Yes ☐ No
	50	25	

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Brown, turbid; no odor / no odor	Clear / no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

INTERIM DELIVERABLE

Former 3-D Oil Distribution Facility

Additional Assessment - Monitor Well Installation, Survey and Groundwater Sampling

Equipment Calibration Logs

CALIBRATION LOG

DATE: 1/31/18 SITE NAME & LOCATION: 3b-OIL/S. Daytona JOB #: 0027G32010

YSI 556 MPS s/n: 11A100195 Turbidity Meter: LaMotte 2020 s/n: 1043

To access .glp file, select main menu, file, view file, .glp, scroll down to bottom and right.
Uncal YSI before initial calibration. Record Conductivity gain, DO gain & ORP offset after calibrating.

Dissolved Oxygen

	DATE	TIME	DO PROBE GAIN (glp file)	DO (mg/L)	TEMP (°C)	DO%	SATURATION (mg/L) (from chart)	PASS/FAIL +/- 0.3 mg/L	INITIALS
CAL	1/31/18	531	0.991	9.17	19.58	100	9.17	P	BH
ICV	"	535		9.30	19.39	100.8	9.20	P	↓
CCV	"	1826		9.55	16.98	98.9	9.66	P	↓

DO gain range = 0.7 to 1.40

Specific Conductivity

	DATE	TIME	STANDARD (µS/cm)	LOT#	EXP. DATE	SP COND READING (µS/cm)	CONDUCTIVITY GAIN (glp file)	CELL CONSTANT	PASS/FAIL +/- 5%	INITIALS
CAL	1/31/18	539	~~1409~~ 1000	7GH1008	1/18	1000	1.042			BH
ICV	"	543	1000	"	"	999			P	↓
CCV	"	1830	1000	"	"	992			P	↓

Conductivity gain range = 0.9 to 1.10; Cell constant = conductivity gain x 5

pH

	DATE	TIME	STANDARD (SU)	LOT#	EXP. DATE	UNCAL (mV)	pH READING (SU)	CAL (mV)	SLOPE	PASS/FAIL +/- 0.2 SU	INITIALS
CAL	1/31/18	550	7.00	7GF140	6/19	-1.8	7.00	-2.1			BH
CAL	"	554	4.00	7GF303	6/19	169.3	4.00	169.8			↓
CAL	"	559	10.00	7GG543	7/19	-170.9	9.91	-171.6			↓
ICV	"	1608	7.00	7GF140	6/19		7.19			P	↓
CCV	"	1844	7.00	"	6/19		7.18			P	↓

pH slope is the difference between uncal mV and cal mV (uncal mV is just the mV reading before you press the cal button)
pH mV range: 7 SU = 0mV +/- 50mV 4 SU = 165 to 180 + 7 SU mV reading 10 SU = -165 to -180 + 7 SU reading

ORP

	DATE	TIME	TEMP (°C)	STANDARD (mV)	LOT#	EXP. DATE	ORP READING (mV)	ORP (mV) OFFSET (glp file)	PASS/FAIL +/- 10 mV	INITIALS
CAL	1/31/18	612	13.13	228	C80 1902	9/18	228.0			BH
ICV	1/31/18	616	13.14	"	"	"	228.0		P	↓
CCV	1/31/18	1834	10.95	"	"	"	228.4		P	↓

ORP mV offset range = 0 +/- 100

TURBIDITY

	DATE	TIME	STANDARD (NTU)	LOT#	EXP. DATE	TURBIDITY READING (NTU)	PASS/FAIL +/- 10%	INITIALS
CAL	1/31/18	620	0	LAB	—	0.11		BH
ICV	"	623	10	C7960 39	6/18	9.88	P	↓
CCV	"	1827	10	"	"	9.84	P	↓

CALIBRATION LOG

DATE: 2/1/2018 SITE NAME & LOCATION: 3bark/S. Daytona JOB #: 0027632010

YSI 556 MPS s/n: 11A100195 Turbidity Meter: LaMotte 2020 s/n: 643

To access .glp file, select main menu, file, view file, .glp, scroll down to bottom and right.
Uncal YSI before initial calibration. Record Conductivity gain, DO gain & ORP offset after calibrating.

Dissolved Oxygen

	DATE	TIME	DO PROBE GAIN (glp file)	DO (mg/L)	TEMP (°C)	DO%	SATURATION (mg/L) (from chart)	PASS/FAIL +/- 0.3 mg/L	INITIALS
CAL									
ICV									
CCV	2/1/18	1104		9.11	19.44	99.1	9.20	P	BH

DO gain range = 0.7 to 1.40

Specific Conductivity

	DATE	TIME	STANDARD (µS/cm)	LOT#	EXP. DATE	SP COND READING (µS/cm)	CONDUCTIVITY GAIN (glp file)	CELL CONSTANT	PASS/FAIL +/- 5%	INITIALS
CAL			~~1409~~							
ICV										
CCV	2/1/18	1106	1000	7GA1008	1/19	1009			P	BH

Conductivity gain range = 0.9 to 1.10; Cell constant = conductivity gain x 5

pH

	DATE	TIME	STANDARD (SU)	LOT#	EXP. DATE	UNCAL (mV)	pH READING (SU)	CAL (mV)	SLOPE	PASS/FAIL +/- 0.2 SU	INITIALS
CAL			7.00								
CAL			4.00								
CAL			10.00								
ICV			7.00								
CCV	2/1/18	1102	7.00	7GF140	6/19		7.19			P	BH

pH slope is the difference between uncal mV and cal mV (uncal mV is just the mV reading before you press the cal button)
pH mV range: 7 SU = 0mV +/- 50mV 4 SU = 165 to 180 + 7 SU mV reading 10 SU = -165 to -180 + 7 SU reading

ORP

	DATE	TIME	TEMP (°C)	STANDARD (mV)	LOT#	EXP. DATE	ORP READING (mV)	ORP (mV) OFFSET (glp file)	PASS/FAIL +/- 10 mV	INITIALS
CAL										
ICV										
CCV	2/1/18	1105	19.52	228	CFC196	9/18	228.9		D	BH

ORP mV offset range = 0 +/- 100

TURBIDITY

	DATE	TIME	STANDARD (NTU)	LOT#	EXP. DATE	TURBIDITY READING (NTU)	PASS/FAIL +/- 10%	INITIALS
CAL								
ICV								
CCV	2/1/18	1102	~~C796239~~ BH 10	~~C796189~~ BH C796189	6/18	10.26	P	BH

INTERIM DELIVERABLE

Former 3-D Oil Distribution Facility

Additional Assessment - Monitor Well Installation, Survey and Groundwater Sampling

Field Notes

Location South Daytona Date 1/29/2018

Project / Client 3D-OIL

340 Cardno (B. Howell) departs Tallahassee in Dodge 1500 truck, weather: A period of slow, sporadic rain; Temp = 64° → 69°F / rain stopping in early morning.

830 Cardno onsite. Gate already open. Ground wet from morning rain.

840 OVA calibrated.
Soil Bore locations marked.

905 Huss onsite: Ignacio Gomez, Weston Linton
ALL soil cuttings will be drummed and labeled.

926 Begin Hand Auger of MW-13 to 5 ft.

935 Hand Auger complete to 5 ft @ MW-13.
Fine grain sand w/ No odor and all OVA = 0 to 5 ft.

943 Begin Geoprobe work @ MW-13.
Moist @ 7½ ft / wet @ 8 ft.
well = 15 ft depth w/ Screen = 5-15.

1003 MW-13: Drill out full diameter of well w/ Geoprobe.
@ 14-15 ft: OVA = 1.2 w/ sulfide odor

BH Howell

Location South Daytona Date 1/29/2018

Project / Client 3D-OIL

1012: Huss begin setting screen & riser pipe. Treme pipe used to compact soil.

1035: MW-13 in place minus grouting.

1040: Huss decon equipment.

1042 MW-14: Begin H.A. to 5 ft.

1047 Hand Auger @ MW-14 complete. Same type soil as MW-13.

1105 MW-14: moist @ 7½ ft wet @ 8-15 ft.

MW-14 well = 15 ft w/ screen @ 5-15 ft. 5ulfide odor @ 13-15 ft
All OVA @ MW-14 = 0.

1114 MW-14: Begin Geoprobe work.

1121 MW-14: Begin setting screen and riser.

1140 MW-14: well set minus grouting & pad.

1152 Begin development of MW-13

1225 MW-13 development complete. Clear H2O w/ No odor

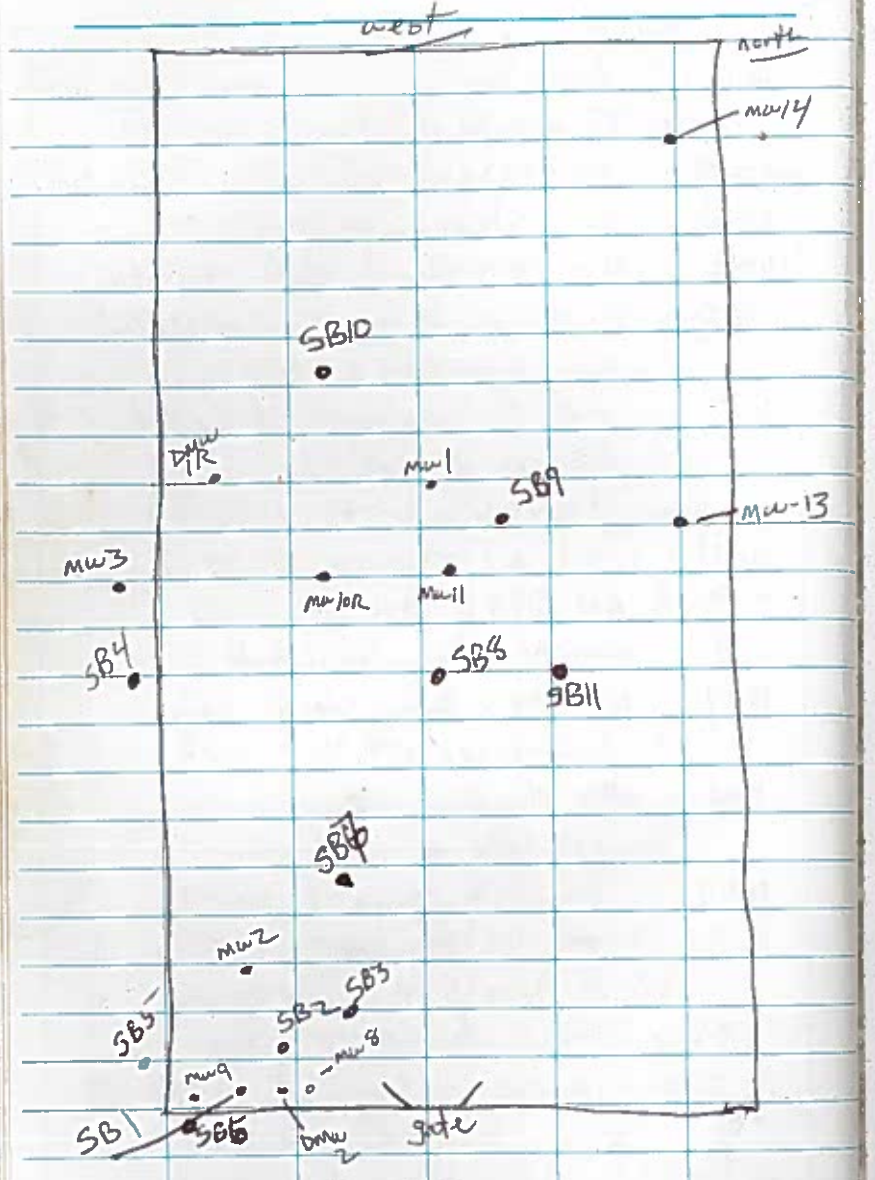
1228 Begin development @ MW-14

1258 Development Complete @ MW-14 Clear H2O w/ no odor

BH Howell

Location South Daytona Date 1/29/2018

Project / Client 3D-OIL



2 - new wells + 11 Soil Bores

Bob Howard

Location South Daytona Date 1/29/2018

Project / Client 3D-OIL

1300	Begin grouting wells.
1300	Begin H.A.07 Soil Bore #1
1314	Moist @ 5-9ft = SB1
	Peristaltic Hose set @ 10ft for H2o Sample.
1325	SB-1 H2o Sample. H2o allowed to clear before sample taken.
1340	Pads being built for mw-13,14
1425	Begin SB-2
	Moist @ 5 1/2 ft.
	petroleum odors @ 7-10ft.
1450	SB-2 H2o Sample
1509	Begin SB-3
	moist @ 5 1/2
1510	Rain/mist making writing difficult
1545	Sampled SB-3
1550	Talked w/ local mgr + told them we need to get to MW-6 and MW-3 on 30th & 31st
1605	Rain persists.
	Cardno + Huss depart.
	Relief Sample
1700	Cardno @ local hotel

Bob Howard

Location South Daytona Date 1/30/2018

Project / Client 3D-OIL

530	Cardno (B. Howell) departs local hotel.
550	Weather: Temp = 48° → 56°F wind = NW @ 5-15 mph MW-6 is a well Cardno has never sampled or found. Must find this well and block off this Area along w/ area of 3 soil bores because local trucks park there.
645	MW-6 located and Area blocked. Cardno departs for ice + food.
715	Cardno back on site. Brent Rowell - surveyor - on site.
723	Huss on site
730	Huss setting up on SB-4
735	SB-4 Begin Hand Auger
750	SB-4 complete. Moist from 6-10 ft.
751	Peristaltic pump used to clear H2O. Each bore hole fills w/ water quickly.

BTHowell

Location South Daytona Date 1/30/2018

Project / Client 3D-OIL

805	Sampled SB-4
816	Setup on SB-5
819	Begin H.A. @ SB-5
826	SB-6 complete to 6 ft. Moist @ 5 1/2 ft wet @ 6-10 ft.
849	Sampled SB-5
900	Begin SB-6; all down By Hand Auger due to high pea limestone
910	SB-6 complete. Moist @ 5 1/2; wet 6-10 ft.
925	Sampled SB-6
934	Begin SB-7
946	SB-7 complete
1005	Moist @ 5 1/2; wet @ 9 ft
	Sampled SB-7
1012	Begin SB-8
1026	SB-8 complete; Moist @ 6-10 ft
1045	Sampled SB-8
1059	Begin SB-9
1107	SB-9 complete
	Moist @ 6-10
	NO ODOR + all OVA = 0 @ SB9

BTH

Location South Daytona Date 1/30/2018

Project / Client 3D-OIL

1125	Sampled SB-9
1135	Begin SB-10
1145	SB-10 complete. Moist @ 6'12 → 10ft.
1203	Sampled SB-10
	Huss deconing between each each soil bore.
1218	Begin SB-11
*	2 Drums of Soil cuttings *
1228	SB-11 complete; moist @ 6'12 → 10ft
1245	Sampled SB-11
1330	Sight cleanup by Huss as Brent Rowell Surveys.
1415	Huss departs.
1443	Surveyor departs.
1450	Cardno departs for Price-Ormond Beach- in order to make 48 hr hold (frozen) time.
1600	Cardno @ local hotel.

Brett

Location South Daytona Date 1/31/2018

Project / Client 3D-OIL

500	Cardno departs local hotel for Tea, etc.
525	Cardno on site. Calibration of YSI and turbidimeter weather: temp = 52° → 63 w/ wind @ 5-20 north-east

Depth To Water

MW-1	= 6.62
MW-2	= 5.99
• MW-3	= 6.20
MW-4	= 6.29
MW-5	= 6.34
• MW-6	= 5.39
• MW-7	= 5.34
• MW-8	= 5.33
• MW-9	= 5.15
• MW-10R	= 6.07
MW-11	= 5.89
MW-12	= 3.34
• MW-13	= 6.39
• MW-14	= 6.39

• DMW-1R	= 6.41
• DMW-2	= 5.34
Unknown well	= 5.33

Brett

Location South Daytona Date 1/31/2018

Project / Client 3D-OIL

815	Began purging mw-3.
	Clear H2O w/ Sulfide odor
852	Sampled MW-3
903	Begin purging mw-7
941	Sampled mw-7.
	Color = lt. yellow odor = none
1000	Began purging mw-8
1029	Sampled mw-8
	Color = lt. yellow odor = Sulfide
1052	Began purging DMW-2.
1238	Sampled DMW-2
	Color = lt. yellow odor = Lt. Sulfide
1258	Began purging MW-9
	*MS/MSD site.
1325	Sampled mw-9
1327	mw-9 MS/MSD
	Clear H2O w/ no odor
1338	Began purging MW-13,
1414	Sampled MW-13
	Clear H2O / NO ODOR
	New well was very stable.
	First Time Sampled.

BDH

Location South Daytona Date 1/31/2018

Project / Client 3D-OIL

1425	Began purging MW-14
	First time sampling this new well.
1501	Sampled mw-14
	Clear H2O / No odor
1512	Began purging DMW-1R
1640	Sampled DMW-1R
	Lt yellow color H2O w/ No odor
1652	Began purging MW-10R
1726	Sampled MW-10R
	Lt yellow H2O w/ sulphur odor
1740	Began purging mw-6
1819	Sampled MW-6
	clear H2O / No odor
1830	End of day Verifications
1855	Cardno departs.
1915	Cardno @ local hotel.

BDH

Bob Howell

Location South Daytona Date 2/1/2018

Project / Client 3DOIL

0600 Cardno (B. Howell) departs local hotel to reice samples, etc. Weather; Temp = 47° → 70° w/ wind @ N.W. 0-5 mph.

0630 Cardno on site.

0640 Begin purging MW-12

0716 Sampled MW-12 Clear H2O / NO ODOR

One 8260 vial Broke

0727 Begin purging MW-4.

0757 Sampled MW-4 Clear H2O / No ODOR

0806 Begin purging MW-5

0836 Sampled MW-5 Clear H2O / No ODOR

0848 Begin purging MW-2.

0923 Sampled MW-2. Light Yellow H2O / Strong sulfide odor

0934 Begin purging MW-11

1018 Sampled MW-11 H2O Color = Gray / ODOR = petroleum/chemical

BCH

Location South Daytona Date 2/1/2018

Project / Client 3D-OIL

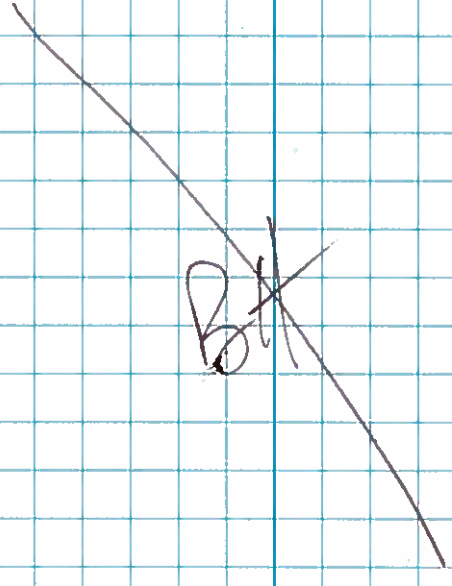
1028 Begin purging MW-1

1059 Sampled MW-1 Color = Lt. ⇒ medium brown ODOR = A distinct chemical or petroleum odor persists.

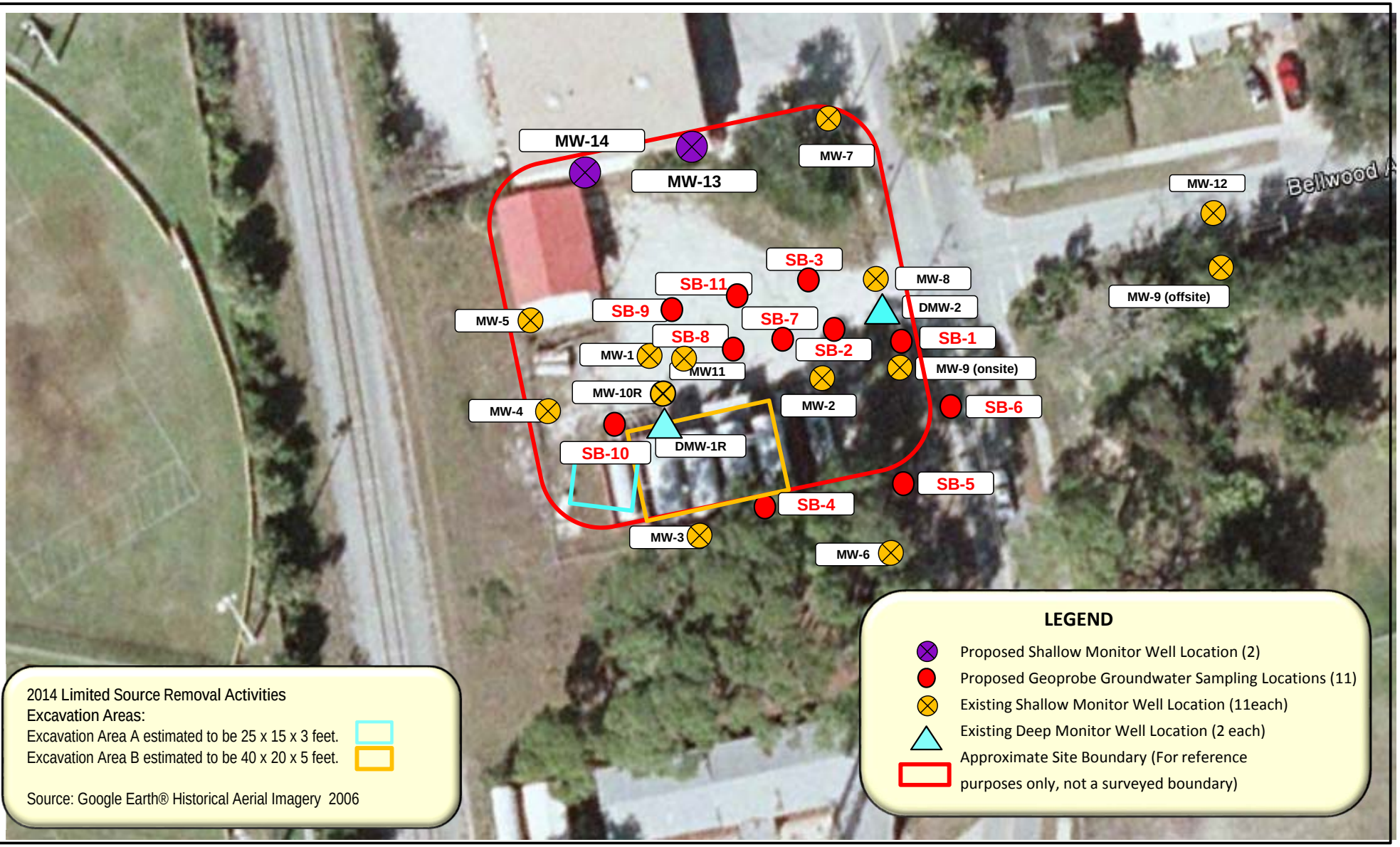
1100 → Verification

1115 Cardno departs Site & will deliver all groundwater samples to Pace Labs - Ormond Beach, Fl.

1615 Cardno Arrives in Tallahassee,



BCH



Cardno
Shaping the Future

Not to Scale

Former 3D Oil Distribution Facility
1744 Segrave Street
South Daytona, Volusia County, Florida
Parcel ID No. 44-15-33-01-04-0010
FDEP Contract No. HW-556

Figure 1
Proposed Monitoring Well Installation and Plume Delineation Map

INTERIM DELIVERABLE

Former 3-D Oil Distribution Facility

Additional Assessment - Monitor Well Installation, Survey and Groundwater Sampling

Laboratory Analytical Results

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

February 13, 2018

Beth Norman
Cardno
2420 Lakeshore Drive
Suite 100
Tallahassee, FL 32308

RE: Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Dear Beth Norman:
Enclosed are the analytical results for sample(s) received by the laboratory on January 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Roger Durham, Cardno
Sid O'Neal, Cardno

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

CERTIFICATIONS

Project:	Former 3D Oil Distribution
Pace Project No.:	35371043

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

SAMPLE SUMMARY

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35371043001	**SB-1**	Water	01/29/18 13:25	01/30/18 15:02
35371043002	**SB-2**	Water	01/29/18 14:50	01/30/18 15:02
35371043003	**SB-3**	Water	01/29/18 15:45	01/30/18 15:02
35371043004	**SB-4**	Water	01/30/18 08:05	01/30/18 15:02
35371043005	**SB-5**	Water	01/30/18 08:49	01/30/18 15:02
35371043006	**SB-6**	Water	01/30/18 09:25	01/30/18 15:02
35371043007	**SB-7**	Water	01/30/18 10:05	01/30/18 15:02
35371043008	**SB-8**	Water	01/30/18 10:45	01/30/18 15:02
35371043009	**SB-9**	Water	01/30/18 11:25	01/30/18 15:02
35371043010	**SB-10**	Water	01/30/18 12:03	01/30/18 15:02
35371043011	**SB-11**	Water	01/30/18 12:45	01/30/18 15:02
35371043012	**Trip Blank**	Water	01/30/18 00:01	01/30/18 15:02

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

SAMPLE ANALYTE COUNT

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35371043001	**SB-1**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043002	**SB-2**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043003	**SB-3**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043004	**SB-4**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043005	**SB-5**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043006	**SB-6**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043007	**SB-7**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	BTN, SK1	7	PASI-O
35371043008	**SB-8**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	BTN, SK1	7	PASI-O
35371043009	**SB-9**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043010	**SB-10**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	BTN, SK1	7	PASI-O
35371043011	**SB-11**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371043012	**Trip Blank**	EPA 8260	SK1	7	PASI-O

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-1 **Lab ID: 35371043001** Collected: 01/29/18 13:25 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.47 I**	ug/L	0.50	0.013	1	02/02/18 10:45	02/06/18 14:42	83-32-9	
Acenaphthylene	**0.076 I**	ug/L	0.50	0.012	1	02/02/18 10:45	02/06/18 14:42	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 10:45	02/06/18 14:42	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 10:45	02/06/18 14:42	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 10:45	02/06/18 14:42	50-32-8	J(L1)
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 10:45	02/06/18 14:42	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 10:45	02/06/18 14:42	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 10:45	02/06/18 14:42	207-08-9	J(L1)
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 10:45	02/06/18 14:42	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/02/18 10:45	02/06/18 14:42	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 10:45	02/06/18 14:42	206-44-0	
Fluorene	**0.30 I**	ug/L	0.50	0.016	1	02/02/18 10:45	02/06/18 14:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 10:45	02/06/18 14:42	193-39-5	
1-Methylnaphthalene	**15.8**	ug/L	2.0	0.015	1	02/02/18 10:45	02/06/18 14:42	90-12-0	
2-Methylnaphthalene	**19.9**	ug/L	2.0	0.019	1	02/02/18 10:45	02/06/18 14:42	91-57-6	
Naphthalene	**13.5**	ug/L	2.0	0.014	1	02/02/18 10:45	02/06/18 14:42	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 10:45	02/06/18 14:42	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 10:45	02/06/18 14:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	33-101		1	02/02/18 10:45	02/06/18 14:42	321-60-8	
p-Terphenyl-d14 (S)	90	%	38-115		1	02/02/18 10:45	02/06/18 14:42	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/01/18 05:56	71-43-2	
Ethylbenzene	**0.70 I**	ug/L	1.0	0.50	1		02/01/18 05:56	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/01/18 05:56	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/01/18 05:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	89-111		1		02/01/18 05:56	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	75-135		1		02/01/18 05:56	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		02/01/18 05:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-2 **Lab ID: 35371043002** Collected: 01/29/18 14:50 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**1.1**	ug/L	0.50	0.013	1	02/02/18 10:45	02/06/18 15:08	83-32-9	
Acenaphthylene	**0.20 I**	ug/L	0.50	0.012	1	02/02/18 10:45	02/06/18 15:08	208-96-8	
Anthracene	**0.31 I**	ug/L	0.50	0.012	1	02/02/18 10:45	02/06/18 15:08	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 10:45	02/06/18 15:08	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 10:45	02/06/18 15:08	50-32-8	J(L1)
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 10:45	02/06/18 15:08	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 10:45	02/06/18 15:08	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 10:45	02/06/18 15:08	207-08-9	J(L1)
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 10:45	02/06/18 15:08	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/02/18 10:45	02/06/18 15:08	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 10:45	02/06/18 15:08	206-44-0	
Fluorene	**1.3**	ug/L	0.50	0.016	1	02/02/18 10:45	02/06/18 15:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 10:45	02/06/18 15:08	193-39-5	
1-Methylnaphthalene	**23.8**	ug/L	2.0	0.015	1	02/02/18 10:45	02/06/18 15:08	90-12-0	
2-Methylnaphthalene	**35.2**	ug/L	2.0	0.019	1	02/02/18 10:45	02/06/18 15:08	91-57-6	
Naphthalene	**143**	ug/L	2.0	0.014	1	02/02/18 10:45	02/06/18 15:08	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 10:45	02/06/18 15:08	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 10:45	02/06/18 15:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	33-101		1	02/02/18 10:45	02/06/18 15:08	321-60-8	
p-Terphenyl-d14 (S)	81	%	38-115		1	02/02/18 10:45	02/06/18 15:08	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/01/18 06:20	71-43-2	
Ethylbenzene	**162**	ug/L	1.0	0.50	1		02/01/18 06:20	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/01/18 06:20	108-88-3	
Xylene (Total)	**492**	ug/L	50.0	15.0	10		02/01/18 22:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%	89-111		1		02/01/18 06:20	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	75-135		1		02/01/18 06:20	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		02/01/18 06:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-3 **Lab ID: 35371043003** Collected: 01/29/18 15:45 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/02/18 10:45	02/06/18 15:35	83-32-9	
Acenaphthylene	**0.28 I**	ug/L	0.50	0.012	1	02/02/18 10:45	02/06/18 15:35	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 10:45	02/06/18 15:35	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 10:45	02/06/18 15:35	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 10:45	02/06/18 15:35	50-32-8	J(L1)
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 10:45	02/06/18 15:35	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 10:45	02/06/18 15:35	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 10:45	02/06/18 15:35	207-08-9	J(L1)
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 10:45	02/06/18 15:35	218-01-9	
Dibenz(a,h)anthracene	**0.14 I**	ug/L	0.15	0.13	1	02/02/18 10:45	02/06/18 15:35	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 10:45	02/06/18 15:35	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/02/18 10:45	02/06/18 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 10:45	02/06/18 15:35	193-39-5	
1-Methylnaphthalene	**36.8**	ug/L	2.0	0.015	1	02/02/18 10:45	02/06/18 15:35	90-12-0	
2-Methylnaphthalene	**58.1**	ug/L	2.0	0.019	1	02/02/18 10:45	02/06/18 15:35	91-57-6	
Naphthalene	**461**	ug/L	10.0	0.072	5	02/02/18 10:45	02/08/18 16:35	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 10:45	02/06/18 15:35	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 10:45	02/06/18 15:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	33-101		1	02/02/18 10:45	02/06/18 15:35	321-60-8	
p-Terphenyl-d14 (S)	87	%	38-115		1	02/02/18 10:45	02/06/18 15:35	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1.0**	ug/L	1.0	0.10	1		02/01/18 06:43	71-43-2	
Ethylbenzene	**1270**	ug/L	25.0	12.5	25		02/01/18 23:20	100-41-4	
Toluene	**9.6**	ug/L	1.0	0.50	1		02/01/18 06:43	108-88-3	
Xylene (Total)	**1370**	ug/L	125	37.5	25		02/01/18 23:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	112	%	89-111		1		02/01/18 06:43	460-00-4	J(S0)
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		02/01/18 06:43	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		02/01/18 06:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-4 **Lab ID: 35371043004** Collected: 01/30/18 08:05 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.41 I**	ug/L	0.50	0.013	1	02/02/18 14:07	02/06/18 11:38	83-32-9	V
Acenaphthylene	**0.095 I**	ug/L	0.50	0.012	1	02/02/18 14:07	02/06/18 11:38	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 14:07	02/06/18 11:38	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 14:07	02/06/18 11:38	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 14:07	02/06/18 11:38	50-32-8	J(M1)
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 14:07	02/06/18 11:38	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 14:07	02/06/18 11:38	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 14:07	02/06/18 11:38	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 14:07	02/06/18 11:38	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/02/18 14:07	02/06/18 11:38	53-70-3	J(M1)
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/06/18 11:38	206-44-0	
Fluorene	**0.24 I**	ug/L	0.50	0.016	1	02/02/18 14:07	02/06/18 11:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 14:07	02/06/18 11:38	193-39-5	
1-Methylnaphthalene	**9.7**	ug/L	2.0	0.015	1	02/02/18 14:07	02/06/18 11:38	90-12-0	
2-Methylnaphthalene	**13.2**	ug/L	2.0	0.019	1	02/02/18 14:07	02/06/18 11:38	91-57-6	J(M1)
Naphthalene	**4.8**	ug/L	2.0	0.014	1	02/02/18 14:07	02/06/18 11:38	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/06/18 11:38	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 14:07	02/06/18 11:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	33-101		1	02/02/18 14:07	02/06/18 11:38	321-60-8	
p-Terphenyl-d14 (S)	80	%	38-115		1	02/02/18 14:07	02/06/18 11:38	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/05/18 23:18	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/05/18 23:18	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/05/18 23:18	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/05/18 23:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		02/05/18 23:18	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		02/05/18 23:18	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/05/18 23:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-5 **Lab ID: 35371043005** Collected: 01/30/18 08:49 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.20 I**	ug/L	0.50	0.013	1	02/02/18 14:07	02/06/18 12:01	83-32-9	V
Acenaphthylene	**0.046 I**	ug/L	0.50	0.012	1	02/02/18 14:07	02/06/18 12:01	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 14:07	02/06/18 12:01	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 14:07	02/06/18 12:01	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 14:07	02/06/18 12:01	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 14:07	02/06/18 12:01	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 14:07	02/06/18 12:01	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 14:07	02/06/18 12:01	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 14:07	02/06/18 12:01	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/02/18 14:07	02/06/18 12:01	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/06/18 12:01	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/02/18 14:07	02/06/18 12:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 14:07	02/06/18 12:01	193-39-5	
1-Methylnaphthalene	**3.7**	ug/L	2.0	0.015	1	02/02/18 14:07	02/06/18 12:01	90-12-0	
2-Methylnaphthalene	**3.1**	ug/L	2.0	0.019	1	02/02/18 14:07	02/06/18 12:01	91-57-6	
Naphthalene	**0.23 I**	ug/L	2.0	0.014	1	02/02/18 14:07	02/06/18 12:01	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/06/18 12:01	85-01-8	V
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 14:07	02/06/18 12:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	33-101		1	02/02/18 14:07	02/06/18 12:01	321-60-8	
p-Terphenyl-d14 (S)	80	%	38-115		1	02/02/18 14:07	02/06/18 12:01	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/05/18 23:42	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/05/18 23:42	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/05/18 23:42	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/05/18 23:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		02/05/18 23:42	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		02/05/18 23:42	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/05/18 23:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-6 **Lab ID: 35371043006** Collected: 01/30/18 09:25 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.020 I**	ug/L	0.50	0.013	1	02/02/18 14:07	02/08/18 18:55	83-32-9	V
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 14:07	02/08/18 18:55	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 14:07	02/08/18 18:55	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 14:07	02/08/18 18:55	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 14:07	02/08/18 18:55	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 14:07	02/08/18 18:55	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 14:07	02/08/18 18:55	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 14:07	02/08/18 18:55	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 14:07	02/08/18 18:55	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/02/18 14:07	02/08/18 18:55	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/08/18 18:55	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/02/18 14:07	02/08/18 18:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 14:07	02/08/18 18:55	193-39-5	
1-Methylnaphthalene	**0.29 I**	ug/L	2.0	0.015	1	02/02/18 14:07	02/08/18 18:55	90-12-0	V
2-Methylnaphthalene	**0.30 I**	ug/L	2.0	0.019	1	02/02/18 14:07	02/08/18 18:55	91-57-6	V
Naphthalene	**0.12 I**	ug/L	2.0	0.026	1	02/02/18 14:07	02/08/18 18:55	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/08/18 18:55	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 14:07	02/08/18 18:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	33-101		1	02/02/18 14:07	02/08/18 18:55	321-60-8	
p-Terphenyl-d14 (S)	95	%	38-115		1	02/02/18 14:07	02/08/18 18:55	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/06/18 00:07	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/06/18 00:07	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/06/18 00:07	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/06/18 00:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		02/06/18 00:07	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		02/06/18 00:07	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		02/06/18 00:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-7 **Lab ID: 35371043007** Collected: 01/30/18 10:05 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.067 U**	ug/L	2.5	0.067	5	02/02/18 14:07	02/08/18 15:50	83-32-9	
Acenaphthylene	**0.42 I**	ug/L	2.5	0.060	5	02/02/18 14:07	02/08/18 15:50	208-96-8	
Anthracene	**0.060 U**	ug/L	2.5	0.060	5	02/02/18 14:07	02/08/18 15:50	120-12-7	
Benzo(a)anthracene	**0.28 U**	ug/L	0.50	0.28	5	02/02/18 14:07	02/08/18 15:50	56-55-3	
Benzo(a)pyrene	**0.10 U**	ug/L	0.50	0.10	5	02/02/18 14:07	02/08/18 15:50	50-32-8	
Benzo(b)fluoranthene	**0.13 U**	ug/L	0.50	0.13	5	02/02/18 14:07	02/08/18 15:50	205-99-2	
Benzo(g,h,i)perylene	**0.21 U**	ug/L	2.5	0.21	5	02/02/18 14:07	02/08/18 15:50	191-24-2	
Benzo(k)fluoranthene	**0.12 U**	ug/L	2.5	0.12	5	02/02/18 14:07	02/08/18 15:50	207-08-9	
Chrysene	**0.13 U**	ug/L	2.5	0.13	5	02/02/18 14:07	02/08/18 15:50	218-01-9	
Dibenz(a,h)anthracene	**0.65 U**	ug/L	0.75	0.65	5	02/02/18 14:07	02/08/18 15:50	53-70-3	
Fluoranthene	**0.090 U**	ug/L	2.5	0.090	5	02/02/18 14:07	02/08/18 15:50	206-44-0	
Fluorene	**0.078 U**	ug/L	2.5	0.078	5	02/02/18 14:07	02/08/18 15:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.61 U**	ug/L	0.75	0.61	5	02/02/18 14:07	02/08/18 15:50	193-39-5	
1-Methylnaphthalene	**78.3**	ug/L	10.0	0.074	5	02/02/18 14:07	02/08/18 15:50	90-12-0	
2-Methylnaphthalene	**110**	ug/L	10.0	0.094	5	02/02/18 14:07	02/08/18 15:50	91-57-6	
Naphthalene	**435**	ug/L	10.0	0.072	5	02/02/18 14:07	02/08/18 15:50	91-20-3	
Phenanthrene	**0.092 U**	ug/L	2.5	0.092	5	02/02/18 14:07	02/08/18 15:50	85-01-8	
Pyrene	**0.093 U**	ug/L	2.5	0.093	5	02/02/18 14:07	02/08/18 15:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	86	%	33-101		5	02/02/18 14:07	02/08/18 15:50	321-60-8	
p-Terphenyl-d14 (S)	81	%	38-115		5	02/02/18 14:07	02/08/18 15:50	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.52 I**	ug/L	1.0	0.10	1		02/01/18 15:20	71-43-2	
Ethylbenzene	**382**	ug/L	25.0	12.5	25		02/05/18 19:29	100-41-4	
Toluene	**30.4**	ug/L	1.0	0.50	1		02/01/18 15:20	108-88-3	
Xylene (Total)	**1780**	ug/L	125	37.5	25		02/05/18 19:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	89-111		1		02/01/18 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		02/01/18 15:20	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		02/01/18 15:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-8 **Lab ID: 35371043008** Collected: 01/30/18 10:45 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.067 U**	ug/L	2.5	0.067	5	02/02/18 14:07	02/08/18 16:12	83-32-9	
Acenaphthylene	**0.060 U**	ug/L	2.5	0.060	5	02/02/18 14:07	02/08/18 16:12	208-96-8	
Anthracene	**0.060 U**	ug/L	2.5	0.060	5	02/02/18 14:07	02/08/18 16:12	120-12-7	
Benzo(a)anthracene	**0.28 U**	ug/L	0.50	0.28	5	02/02/18 14:07	02/08/18 16:12	56-55-3	
Benzo(a)pyrene	**0.10 U**	ug/L	0.50	0.10	5	02/02/18 14:07	02/08/18 16:12	50-32-8	
Benzo(b)fluoranthene	**0.13 U**	ug/L	0.50	0.13	5	02/02/18 14:07	02/08/18 16:12	205-99-2	
Benzo(g,h,i)perylene	**0.21 U**	ug/L	2.5	0.21	5	02/02/18 14:07	02/08/18 16:12	191-24-2	
Benzo(k)fluoranthene	**0.12 U**	ug/L	2.5	0.12	5	02/02/18 14:07	02/08/18 16:12	207-08-9	
Chrysene	**0.13 U**	ug/L	2.5	0.13	5	02/02/18 14:07	02/08/18 16:12	218-01-9	
Dibenz(a,h)anthracene	**0.65 U**	ug/L	0.75	0.65	5	02/02/18 14:07	02/08/18 16:12	53-70-3	
Fluoranthene	**0.090 U**	ug/L	2.5	0.090	5	02/02/18 14:07	02/08/18 16:12	206-44-0	
Fluorene	**0.078 U**	ug/L	2.5	0.078	5	02/02/18 14:07	02/08/18 16:12	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.61 U**	ug/L	0.75	0.61	5	02/02/18 14:07	02/08/18 16:12	193-39-5	
1-Methylnaphthalene	**46.0**	ug/L	10.0	0.074	5	02/02/18 14:07	02/08/18 16:12	90-12-0	
2-Methylnaphthalene	**66.3**	ug/L	10.0	0.094	5	02/02/18 14:07	02/08/18 16:12	91-57-6	
Naphthalene	**257**	ug/L	10.0	0.072	5	02/02/18 14:07	02/08/18 16:12	91-20-3	
Phenanthrene	**0.092 U**	ug/L	2.5	0.092	5	02/02/18 14:07	02/08/18 16:12	85-01-8	
Pyrene	**0.093 U**	ug/L	2.5	0.093	5	02/02/18 14:07	02/08/18 16:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	33-101		5	02/02/18 14:07	02/08/18 16:12	321-60-8	
p-Terphenyl-d14 (S)	48	%	38-115		5	02/02/18 14:07	02/08/18 16:12	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1.3**	ug/L	1.0	0.10	1		02/01/18 15:44	71-43-2	
Ethylbenzene	**771**	ug/L	10.0	5.0	10		02/05/18 19:55	100-41-4	
Toluene	**6.8**	ug/L	1.0	0.50	1		02/01/18 15:44	108-88-3	
Xylene (Total)	**1310**	ug/L	50.0	15.0	10		02/05/18 19:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	89-111		1		02/01/18 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	75-135		1		02/01/18 15:44	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		02/01/18 15:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-9 **Lab ID: 35371043009** Collected: 01/30/18 11:25 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/02/18 14:07	02/06/18 13:30	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 14:07	02/06/18 13:30	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/02/18 14:07	02/06/18 13:30	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/02/18 14:07	02/06/18 13:30	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/02/18 14:07	02/06/18 13:30	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/02/18 14:07	02/06/18 13:30	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/02/18 14:07	02/06/18 13:30	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/02/18 14:07	02/06/18 13:30	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/02/18 14:07	02/06/18 13:30	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/02/18 14:07	02/06/18 13:30	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/06/18 13:30	206-44-0	
Fluorene	**0.028 I**	ug/L	0.50	0.016	1	02/02/18 14:07	02/06/18 13:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/02/18 14:07	02/06/18 13:30	193-39-5	
1-Methylnaphthalene	**1.0 I**	ug/L	2.0	0.015	1	02/02/18 14:07	02/06/18 13:30	90-12-0	
2-Methylnaphthalene	**1.2 I**	ug/L	2.0	0.019	1	02/02/18 14:07	02/06/18 13:30	91-57-6	
Naphthalene	**0.47 I**	ug/L	2.0	0.014	1	02/02/18 14:07	02/06/18 13:30	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/02/18 14:07	02/06/18 13:30	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/02/18 14:07	02/06/18 13:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	33-101		1	02/02/18 14:07	02/06/18 13:30	321-60-8	
p-Terphenyl-d14 (S)	69	%	38-115		1	02/02/18 14:07	02/06/18 13:30	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/06/18 00:31	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/06/18 00:31	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/06/18 00:31	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/06/18 00:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		02/06/18 00:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		02/06/18 00:31	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		02/06/18 00:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-10 **Lab ID: 35371043010** Collected: 01/30/18 12:03 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.44 I**	ug/L	0.50	0.013	1	02/05/18 09:00	02/06/18 22:00	83-32-9	
Acenaphthylene	**0.38 I**	ug/L	0.50	0.012	1	02/05/18 09:00	02/06/18 22:00	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 09:00	02/06/18 22:00	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 09:00	02/06/18 22:00	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 09:00	02/06/18 22:00	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 09:00	02/06/18 22:00	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 09:00	02/06/18 22:00	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 09:00	02/06/18 22:00	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 09:00	02/06/18 22:00	218-01-9	J(L1)
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 09:00	02/06/18 22:00	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 09:00	02/06/18 22:00	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 09:00	02/06/18 22:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 09:00	02/06/18 22:00	193-39-5	
1-Methylnaphthalene	**71.3**	ug/L	2.0	0.015	1	02/05/18 09:00	02/06/18 22:00	90-12-0	
2-Methylnaphthalene	**87.3**	ug/L	2.0	0.019	1	02/05/18 09:00	02/06/18 22:00	91-57-6	
Naphthalene	**52.0**	ug/L	2.0	0.014	1	02/05/18 09:00	02/06/18 22:00	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 09:00	02/06/18 22:00	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 09:00	02/06/18 22:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	33-101		1	02/05/18 09:00	02/06/18 22:00	321-60-8	
p-Terphenyl-d14 (S)	70	%	38-115		1	02/05/18 09:00	02/06/18 22:00	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/01/18 16:33	71-43-2	
Ethylbenzene	**135**	ug/L	1.0	0.50	1		02/01/18 16:33	100-41-4	
Toluene	**26.8**	ug/L	1.0	0.50	1		02/01/18 16:33	108-88-3	
Xylene (Total)	**457**	ug/L	50.0	15.0	10		02/05/18 20:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	89-111		1		02/01/18 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		02/01/18 16:33	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		02/01/18 16:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: SB-11 **Lab ID: 35371043011** Collected: 01/30/18 12:45 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 09:00	02/06/18 22:22	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 09:00	02/06/18 22:22	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 09:00	02/06/18 22:22	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 09:00	02/06/18 22:22	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 09:00	02/06/18 22:22	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 09:00	02/06/18 22:22	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 09:00	02/06/18 22:22	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 09:00	02/06/18 22:22	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 09:00	02/06/18 22:22	218-01-9	J(L1)
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 09:00	02/06/18 22:22	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 09:00	02/06/18 22:22	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 09:00	02/06/18 22:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 09:00	02/06/18 22:22	193-39-5	
1-Methylnaphthalene	**0.71 I**	ug/L	2.0	0.015	1	02/05/18 09:00	02/06/18 22:22	90-12-0	
2-Methylnaphthalene	**0.99 I**	ug/L	2.0	0.019	1	02/05/18 09:00	02/06/18 22:22	91-57-6	
Naphthalene	**0.87 I**	ug/L	2.0	0.014	1	02/05/18 09:00	02/06/18 22:22	91-20-3	
Phenanthrene	**0.026 I**	ug/L	0.50	0.018	1	02/05/18 09:00	02/06/18 22:22	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 09:00	02/06/18 22:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	33-101		1	02/05/18 09:00	02/06/18 22:22	321-60-8	
p-Terphenyl-d14 (S)	69	%	38-115		1	02/05/18 09:00	02/06/18 22:22	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/06/18 04:36	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/06/18 04:36	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/06/18 04:36	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/06/18 04:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		02/06/18 04:36	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		02/06/18 04:36	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		02/06/18 04:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Sample: Trip Blank **Lab ID: 35371043012** Collected: 01/30/18 00:01 Received: 01/30/18 15:02 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/05/18 22:53	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/05/18 22:53	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/05/18 22:53	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/05/18 22:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		02/05/18 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		02/05/18 22:53	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		02/05/18 22:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

QC Batch: 422726 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371043001, 35371043002, 35371043003

METHOD BLANK: 2301039 Matrix: Water
Associated Lab Samples: 35371043001, 35371043002, 35371043003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/01/18 00:23	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/01/18 00:23	
Toluene	ug/L	0.50 U	1.0	0.50	02/01/18 00:23	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/01/18 00:23	
1,2-Dichloroethane-d4 (S)	%	123	75-135		02/01/18 00:23	
4-Bromofluorobenzene (S)	%	98	89-111		02/01/18 00:23	
Toluene-d8 (S)	%	100	89-112		02/01/18 00:23	

LABORATORY CONTROL SAMPLE: 2301040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	22.0	110	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Toluene	ug/L	20	20.2	101	70-130	
Xylene (Total)	ug/L	60	63.7	106	70-130	
1,2-Dichloroethane-d4 (S)	%			104	75-135	
4-Bromofluorobenzene (S)	%			100	89-111	
Toluene-d8 (S)	%			103	89-112	

MATRIX SPIKE SAMPLE: 2301902

Parameter	Units	35370896002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.10 U	20	20.9	104	70-130	
Ethylbenzene	ug/L	2.3	20	22.8	102	70-130	
Toluene	ug/L	0.50 U	20	19.0	95	70-130	
Xylene (Total)	ug/L	1.5 U	60	61.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%				117	75-135	
4-Bromofluorobenzene (S)	%				105	89-111	
Toluene-d8 (S)	%				101	89-112	

SAMPLE DUPLICATE: 2301901

Parameter	Units	35370896001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

SAMPLE DUPLICATE: 2301901

Parameter	Units	35370896001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	121	119	2	40	
4-Bromofluorobenzene (S)	%	99	102	2	40	
Toluene-d8 (S)	%	102	101	1	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

QC Batch: 422961 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371043007, 35371043008, 35371043010

METHOD BLANK: 2301980 Matrix: Water
Associated Lab Samples: 35371043007, 35371043008, 35371043010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/01/18 11:38	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/01/18 11:38	
Toluene	ug/L	0.50 U	1.0	0.50	02/01/18 11:38	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/01/18 11:38	
1,2-Dichloroethane-d4 (S)	%	101	75-135		02/01/18 11:38	
4-Bromofluorobenzene (S)	%	101	89-111		02/01/18 11:38	
Toluene-d8 (S)	%	100	89-112		02/01/18 11:38	

LABORATORY CONTROL SAMPLE: 2301981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	19.4	97	70-130	
Xylene (Total)	ug/L	60	63.1	105	70-130	
1,2-Dichloroethane-d4 (S)	%			91	75-135	
4-Bromofluorobenzene (S)	%			102	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2302400

Parameter	Units	35370723002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.36 I	20	18.4	90	70-130	
Ethylbenzene	ug/L	0.53 I	20	19.1	93	70-130	
Toluene	ug/L	0.54 I	20	19.0	92	70-130	
Xylene (Total)	ug/L	1.5 U	60	59.9	100	70-130	
1,2-Dichloroethane-d4 (S)	%				93	75-135	
4-Bromofluorobenzene (S)	%				106	89-111	
Toluene-d8 (S)	%				101	89-112	

SAMPLE DUPLICATE: 2302399

Parameter	Units	35370723001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.22 I	0.30 I		40	
Ethylbenzene	ug/L	0.50 U	0.52 I		40	
Toluene	ug/L	0.50 U	0.50 I		40	
Xylene (Total)	ug/L	1.8 I	1.9 I		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

SAMPLE DUPLICATE: 2302399

Parameter	Units	35370723001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	100	100	0	40	
4-Bromofluorobenzene (S)	%	101	99	2	40	
Toluene-d8 (S)	%	102	102	0	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

QC Batch: 423725 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371043004, 35371043005, 35371043006, 35371043009, 35371043011, 35371043012

METHOD BLANK: 2306026 Matrix: Water
Associated Lab Samples: 35371043004, 35371043005, 35371043006, 35371043009, 35371043011, 35371043012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/05/18 22:29	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/05/18 22:29	
Toluene	ug/L	0.50 U	1.0	0.50	02/05/18 22:29	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/05/18 22:29	
1,2-Dichloroethane-d4 (S)	%	103	75-135		02/05/18 22:29	
4-Bromofluorobenzene (S)	%	95	89-111		02/05/18 22:29	
Toluene-d8 (S)	%	98	89-112		02/05/18 22:29	

LABORATORY CONTROL SAMPLE: 2306027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.7	103	70-130	
Ethylbenzene	ug/L	20	21.5	108	70-130	
Toluene	ug/L	20	20.1	100	70-130	
Xylene (Total)	ug/L	60	68.9	115	70-130	
1,2-Dichloroethane-d4 (S)	%			99	75-135	
4-Bromofluorobenzene (S)	%			102	89-111	
Toluene-d8 (S)	%			97	89-112	

MATRIX SPIKE SAMPLE: 2306271

Parameter	Units	35370814002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	1.3	20	21.4	100	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.7	99	70-130	
Toluene	ug/L	0.50 U	20	18.5	92	70-130	
Xylene (Total)	ug/L	1.5 U	60	64.1	107	70-130	
1,2-Dichloroethane-d4 (S)	%				93	75-135	
4-Bromofluorobenzene (S)	%				98	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2306270

Parameter	Units	35370814001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

SAMPLE DUPLICATE: 2306270

Parameter	Units	35370814001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	103	103	0	40	
4-Bromofluorobenzene (S)	%	95	94	0	40	
Toluene-d8 (S)	%	98	99	2	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

QC Batch: 423003 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35371043001, 35371043002, 35371043003

METHOD BLANK: 2302168 Matrix: Water
Associated Lab Samples: 35371043001, 35371043002, 35371043003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.015 U	2.0	0.015	02/05/18 16:36	
2-Methylnaphthalene	ug/L	0.019 U	2.0	0.019	02/05/18 16:36	
Acenaphthene	ug/L	0.013 U	0.50	0.013	02/05/18 16:36	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	02/05/18 16:36	
Anthracene	ug/L	0.012 U	0.50	0.012	02/05/18 16:36	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	02/05/18 16:36	
Benzo(a)pyrene	ug/L	0.020 U	0.10	0.020	02/05/18 16:36	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	02/05/18 16:36	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	02/05/18 16:36	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	02/05/18 16:36	
Chrysene	ug/L	0.026 U	0.50	0.026	02/05/18 16:36	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	02/05/18 16:36	
Fluoranthene	ug/L	0.018 U	0.50	0.018	02/05/18 16:36	
Fluorene	ug/L	0.016 U	0.50	0.016	02/05/18 16:36	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	02/05/18 16:36	
Naphthalene	ug/L	0.014 U	2.0	0.014	02/05/18 16:36	
Phenanthrene	ug/L	0.018 U	0.50	0.018	02/05/18 16:36	
Pyrene	ug/L	0.019 U	0.50	0.019	02/05/18 16:36	
2-Fluorobiphenyl (S)	%	63	33-101		02/05/18 16:36	
p-Terphenyl-d14 (S)	%	80	38-115		02/05/18 16:36	

LABORATORY CONTROL SAMPLE: 2302169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	4.0	80	33-118	
2-Methylnaphthalene	ug/L	5	3.9	78	34-104	
Acenaphthene	ug/L	5	4.4	89	38-109	
Acenaphthylene	ug/L	5	4.1	81	31-115	
Anthracene	ug/L	5	4.7	95	38-111	
Benzo(a)anthracene	ug/L	5	5.0	99	36-110	
Benzo(a)pyrene	ug/L	5	5.9	117	27-107	J(L1)
Benzo(b)fluoranthene	ug/L	5	4.3	87	32-119	
Benzo(g,h,i)perylene	ug/L	5	4.0	80	10-109	
Benzo(k)fluoranthene	ug/L	5	6.0	121	28-118	J(L1)
Chrysene	ug/L	5	6.0	120	33-130	
Dibenz(a,h)anthracene	ug/L	5	4.8	96	10-104	
Fluoranthene	ug/L	5	5.3	106	45-115	
Fluorene	ug/L	5	4.5	89	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.6	91	10-104	
Naphthalene	ug/L	5	4.0	81	38-100	

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

LABORATORY CONTROL SAMPLE: 2302169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	4.3	87	41-106	
Pyrene	ug/L	5	5.5	110	45-115	
2-Fluorobiphenyl (S)	%			81	33-101	
p-Terphenyl-d14 (S)	%			93	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2302777 2302778

Parameter	Units	35370969002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.015 U	5	5	2.8	3.0	57	59	33-118	4	40	
2-Methylnaphthalene	ug/L	0.019 U	5	5	2.4	2.4	47	48	34-104	2	40	
Acenaphthene	ug/L	0.013 U	5	5	2.8	2.9	56	59	38-109	5	40	
Acenaphthylene	ug/L	0.012 U	5	5	2.4	2.6	49	51	31-115	6	40	
Anthracene	ug/L	0.012 U	5	5	3.3	3.4	67	68	38-111	2	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	4.0	4.1	80	83	36-110	3	40	
Benzo(a)pyrene	ug/L	0.020 U	5	5	4.7	4.6	94	92	27-107	2	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.5	3.4	69	69	32-119	1	40	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	5	3.5	3.6	71	71	10-109	1	40	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5	4.9	4.9	97	98	28-118	0	40	
Chrysene	ug/L	0.026 U	5	5	4.8	4.6	96	92	33-130	4	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.2	4.2	84	84	10-104	0	40	
Fluoranthene	ug/L	0.018 U	5	5	4.1	4.0	82	80	45-115	3	40	
Fluorene	ug/L	0.016 U	5	5	2.8	3.1	56	61	41-114	10	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	4.0	4.1	80	81	10-104	1	40	
Naphthalene	ug/L	0.016 I	5	5	2.5	2.5	49	50	38-100	3	40	
Phenanthrene	ug/L	0.018 U	5	5	3.0	3.2	61	63	41-106	5	40	
Pyrene	ug/L	0.019 U	5	5	4.3	4.1	86	83	45-115	3	40	
2-Fluorobiphenyl (S)	%						49	50	33-101			
p-Terphenyl-d14 (S)	%						75	71	38-115			

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

QC Batch: 423005 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35371043004, 35371043005, 35371043006, 35371043007, 35371043008, 35371043009

METHOD BLANK: 2302170 Matrix: Water
Associated Lab Samples: 35371043004, 35371043005, 35371043006, 35371043007, 35371043008, 35371043009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.045 I	2.0	0.015	02/06/18 11:16	
2-Methylnaphthalene	ug/L	0.050 I	2.0	0.019	02/06/18 11:16	
Acenaphthene	ug/L	0.12 I	0.50	0.013	02/06/18 11:16	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	02/06/18 11:16	
Anthracene	ug/L	0.012 U	0.50	0.012	02/06/18 11:16	
Benzo(a)anthracene	ug/L	0.58	0.10	0.055	02/06/18 11:16	
Benzo(a)pyrene	ug/L	0.19	0.10	0.020	02/06/18 11:16	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	02/06/18 11:16	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	02/06/18 11:16	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	02/06/18 11:16	
Chrysene	ug/L	0.096 I	0.50	0.026	02/06/18 11:16	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	02/06/18 11:16	
Fluoranthene	ug/L	0.018 U	0.50	0.018	02/06/18 11:16	
Fluorene	ug/L	0.016 U	0.50	0.016	02/06/18 11:16	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	02/06/18 11:16	
Naphthalene	ug/L	0.016 I	2.0	0.014	02/06/18 11:16	
Phenanthrene	ug/L	0.024 I	0.50	0.018	02/06/18 11:16	
Pyrene	ug/L	0.019 U	0.50	0.019	02/06/18 11:16	
2-Fluorobiphenyl (S)	%	98	33-101		02/06/18 11:16	
p-Terphenyl-d14 (S)	%	81	38-115		02/06/18 11:16	

LABORATORY CONTROL SAMPLE: 2302171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.7	74	33-118	
2-Methylnaphthalene	ug/L	5	3.5	70	34-104	
Acenaphthene	ug/L	5	4.2	84	38-109	
Acenaphthylene	ug/L	5	3.1	62	31-115	
Anthracene	ug/L	5	4.3	85	38-111	
Benzo(a)anthracene	ug/L	5	4.0	81	36-110	
Benzo(a)pyrene	ug/L	5	5.0	100	27-107	
Benzo(b)fluoranthene	ug/L	5	4.1	82	32-119	
Benzo(g,h,i)perylene	ug/L	5	4.1	82	10-109	
Benzo(k)fluoranthene	ug/L	5	5.2	104	28-118	
Chrysene	ug/L	5	6.0	121	33-130	
Dibenz(a,h)anthracene	ug/L	5	4.6	92	10-104	
Fluoranthene	ug/L	5	4.4	88	45-115	
Fluorene	ug/L	5	4.2	84	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.3	86	10-104	
Naphthalene	ug/L	5	3.8	76	38-100	

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

LABORATORY CONTROL SAMPLE: 2302171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	4.2	85	41-106	
Pyrene	ug/L	5	4.5	90	45-115	
2-Fluorobiphenyl (S)	%			74	33-101	
p-Terphenyl-d14 (S)	%			80	38-115	

MATRIX SPIKE SAMPLE: 2302779

Parameter	Units	35371043004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	9.7	5	15.5	115	33-118	
2-Methylnaphthalene	ug/L	13.2	5	19.6	128	34-104	J(M1)
Acenaphthene	ug/L	0.41 I	5	4.7	86	38-109	
Acenaphthylene	ug/L	0.095 I	5	3.6	71	31-115	
Anthracene	ug/L	0.012 U	5	4.5	90	38-111	
Benzo(a)anthracene	ug/L	0.055 U	5	4.3	85	36-110	
Benzo(a)pyrene	ug/L	0.020 U	5	5.5	110	27-107	J(M1)
Benzo(b)fluoranthene	ug/L	0.027 U	5	4.6	91	32-119	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	4.9	97	10-109	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5.3	106	28-118	
Chrysene	ug/L	0.026 U	5	6.4	127	33-130	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5.4	108	10-104	J(M1)
Fluoranthene	ug/L	0.018 U	5	5.1	103	45-115	
Fluorene	ug/L	0.24 I	5	5.1	98	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5.2	103	10-104	
Naphthalene	ug/L	4.8	5	9.6	97	38-100	
Phenanthrene	ug/L	0.018 U	5	4.4	89	41-106	
Pyrene	ug/L	0.019 U	5	5.3	105	45-115	
2-Fluorobiphenyl (S)	%				76	33-101	
p-Terphenyl-d14 (S)	%				89	38-115	

SAMPLE DUPLICATE: 2302780

Parameter	Units	35371211001 Result	Dup Result	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	3.2	2.8	12	40	
2-Methylnaphthalene	ug/L	2.8	2.5	12	40	
Acenaphthene	ug/L	0.013 U	0.013 U		40	
Acenaphthylene	ug/L	0.012 U	0.012 U		40	
Anthracene	ug/L	0.012 U	0.012 U		40	
Benzo(a)anthracene	ug/L	0.055 U	0.055 U		40	
Benzo(a)pyrene	ug/L	0.020 U	0.020 U		40	
Benzo(b)fluoranthene	ug/L	0.027 U	0.027 U		40	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.042 U		40	
Benzo(k)fluoranthene	ug/L	0.023 U	0.023 U		40	
Chrysene	ug/L	0.026 U	0.026 U		40	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.13 U		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

SAMPLE DUPLICATE: 2302780

Parameter	Units	35371211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fluoranthene	ug/L	0.018 U	0.018 U		40	
Fluorene	ug/L	0.016 U	0.016 U		40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.12 U		40	
Naphthalene	ug/L	14.6	13.3	9	40	
Phenanthrene	ug/L	0.018 U	0.018 U		40	
Pyrene	ug/L	0.019 U	0.019 U		40	
2-Fluorobiphenyl (S)	%	60	57	4		
p-Terphenyl-d14 (S)	%	68	61	10		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

QC Batch: 423296 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35371043010, 35371043011

METHOD BLANK: 2303877 Matrix: Water
Associated Lab Samples: 35371043010, 35371043011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.015 I	2.0	0.015	02/08/18 17:34	
2-Methylnaphthalene	ug/L	0.027 I	2.0	0.019	02/08/18 17:34	
Acenaphthene	ug/L	0.013 U	0.50	0.013	02/08/18 17:34	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	02/08/18 17:34	
Anthracene	ug/L	0.012 U	0.50	0.012	02/08/18 17:34	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	02/08/18 17:34	
Benzo(a)pyrene	ug/L	0.020 U	0.10	0.020	02/08/18 17:34	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	02/08/18 17:34	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	02/08/18 17:34	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	02/08/18 17:34	
Chrysene	ug/L	0.026 U	0.50	0.026	02/08/18 17:34	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	02/08/18 17:34	
Fluoranthene	ug/L	0.018 U	0.50	0.018	02/08/18 17:34	
Fluorene	ug/L	0.016 U	0.50	0.016	02/08/18 17:34	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	02/08/18 17:34	
Naphthalene	ug/L	0.026 U	2.0	0.026	02/08/18 17:34	
Phenanthrene	ug/L	0.018 U	0.50	0.018	02/08/18 17:34	
Pyrene	ug/L	0.019 U	0.50	0.019	02/08/18 17:34	
2-Fluorobiphenyl (S)	%	72	33-101		02/08/18 17:34	
p-Terphenyl-d14 (S)	%	99	38-115		02/08/18 17:34	

LABORATORY CONTROL SAMPLE: 2303878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	4.5	91	33-118	
2-Methylnaphthalene	ug/L	5	3.3	66	34-104	
Acenaphthene	ug/L	5	4.3	87	38-109	
Acenaphthylene	ug/L	5	3.0	60	31-115	
Anthracene	ug/L	5	3.8	76	38-111	
Benzo(a)anthracene	ug/L	5	3.2	65	36-110	
Benzo(a)pyrene	ug/L	5	5.2	103	27-107	
Benzo(b)fluoranthene	ug/L	5	3.9	77	32-119	
Benzo(g,h,i)perylene	ug/L	5	4.3	86	10-109	
Benzo(k)fluoranthene	ug/L	5	4.8	96	28-118	
Chrysene	ug/L	5	6.6	131	33-130	J(L1)
Dibenz(a,h)anthracene	ug/L	5	4.0	80	10-104	
Fluoranthene	ug/L	5	4.0	80	45-115	
Fluorene	ug/L	5	4.0	80	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.3	86	10-104	
Naphthalene	ug/L	5	3.8	76	38-100	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

LABORATORY CONTROL SAMPLE: 2303878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	4.0	80	41-106	
Pyrene	ug/L	5	4.2	83	45-115	
2-Fluorobiphenyl (S)	%			73	33-101	
p-Terphenyl-d14 (S)	%			72	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305168 2305169

Parameter	Units	35371086001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.015 U	5	5	4.2	4.8	85	97	33-118	13	40	
2-Methylnaphthalene	ug/L	0.019 U	5	5	3.4	3.5	68	71	34-104	3	40	
Acenaphthene	ug/L	0.013 U	5	5	3.5	3.4	71	67	38-109	5	40	
Acenaphthylene	ug/L	0.012 U	5	5	2.4	2.3	49	46	31-115	7	40	
Anthracene	ug/L	0.012 U	5	5	3.5	3.3	71	65	38-111	8	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	2.6	2.3	53	46	36-110	13	40	
Benzo(a)pyrene	ug/L	0.020 U	5	5	4.6	4.4	92	87	27-107	5	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.0	2.9	60	59	32-119	3	40	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	5	4.2	4.0	84	79	10-109	6	40	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5	4.7	4.4	94	89	28-118	5	40	
Chrysene	ug/L	0.026 U	5	5	6.3	6.2	127	124	33-130	2	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.0	3.7	79	74	10-104	7	40	
Fluoranthene	ug/L	0.018 U	5	5	3.5	3.2	71	64	45-115	10	40	
Fluorene	ug/L	0.016 U	5	5	3.3	3.1	65	63	41-114	4	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	3.9	3.6	78	71	10-104	9	40	
Naphthalene	ug/L	0.031 I	5	5	3.3	3.8	65	76	38-100	15	40	
Phenanthrene	ug/L	0.018 U	5	5	3.3	3.1	67	63	41-106	6	40	
Pyrene	ug/L	0.019 U	5	5	3.8	3.4	76	69	45-115	10	40	
2-Fluorobiphenyl (S)	%						60	74	33-101			
p-Terphenyl-d14 (S)	%						64	56	38-115			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALIFIERS

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(S0)	Estimated Value. Surrogate recovery outside laboratory control limits.
V	Indicates that the analyte was detected in both the sample and the associated method blank.

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former 3D Oil Distribution
Pace Project No.: 35371043

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35371043001	**SB-1**	EPA 3510	423003	EPA 8270 by SIM	423561
35371043002	**SB-2**	EPA 3510	423003	EPA 8270 by SIM	423561
35371043003	**SB-3**	EPA 3510	423003	EPA 8270 by SIM	423561
35371043004	**SB-4**	EPA 3510	423005	EPA 8270 by SIM	423661
35371043005	**SB-5**	EPA 3510	423005	EPA 8270 by SIM	423661
35371043006	**SB-6**	EPA 3510	423005	EPA 8270 by SIM	423661
35371043007	**SB-7**	EPA 3510	423005	EPA 8270 by SIM	423661
35371043008	**SB-8**	EPA 3510	423005	EPA 8270 by SIM	423661
35371043009	**SB-9**	EPA 3510	423005	EPA 8270 by SIM	423661
35371043010	**SB-10**	EPA 3510	423296	EPA 8270 by SIM	423861
35371043011	**SB-11**	EPA 3510	423296	EPA 8270 by SIM	423861
35371043001	**SB-1**	EPA 8260	422726		
35371043002	**SB-2**	EPA 8260	422726		
35371043003	**SB-3**	EPA 8260	422726		
35371043004	**SB-4**	EPA 8260	423725		
35371043005	**SB-5**	EPA 8260	423725		
35371043006	**SB-6**	EPA 8260	423725		
35371043007	**SB-7**	EPA 8260	422961		
35371043008	**SB-8**	EPA 8260	422961		
35371043009	**SB-9**	EPA 8260	423725		
35371043010	**SB-10**	EPA 8260	422961		
35371043011	**SB-11**	EPA 8260	423725		
35371043012	**Trip Blank**	EPA 8260	423725		

WO# : 35371043

35371043

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Cardno
Address:	2420 Lakeshore Drive
	Suite 100, Tallahassee, FL 32312
Email:	
Phone: 8509331099	Fax:
Requested Due Date:	Normal

Required Project Information:

Report To:	Beth Norman
Copy To:	
Purchase Order #:	
Project Name:	Former 3D Oil Distribution
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	lori.palmer@pacelabs.com,
Pace Profile #:	8106 line 3

Regulatory Agency

State / Location: FL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: Trip BLANK	8260 BTEX	PAH by 8270 SIM (low vol)	PAH by 8270 SIM (low vol)	Residual Chlorine (Y/N)
1	SB-1			1/29/18	1325			70	4	1			3						3	1		
2	SB-2			1/29/18	1350				4	1			3						3	1		
3	SB-3			1/29/18	1545				4	1			3						3	1		
4	SB-4			1/30/18	805			50	4	1			3						3	1		
5	SB-5			1/30	849				4	1			3						3	1		
6	SB-6			1/30	925				4	1			3						3	1		
7	SB-7			1/30	1205				4	1			3						3	1		
8	SB-8			1/30	1045				4	1			3						3	1		
9	SB-9			1/30/18	1125				4	1			3						3	1		
10	SB-10			1/30	1203				4	1			3						3	1		
11	SB-11			1/30/18	1245				4	1			3						3	1		
12																						

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Empty Containers	Bob Howell	1/29/18	1520	FED Pace	1-30-18	1502	5.4	Y	N	Y
		1/30/18	1503	PACE DAD						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BOB Howell

SIGNATURE of SAMPLER: Bob Howell

DATE Signed: 1/30/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35371043

Project Manager: PM: LAP Due Date: 02/06/18

Client: CLIENT: 37-CATBCLE

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: DAH
pH: _____

Thermometer Used: T301 Date: 1/30-18 Time: 1502 Initials: PBD

State of Origin: _____

Cooler #1 Temp.°C	5.4 (Visual)	0 (Correction Factor)	5.4 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other_____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☑ Standard Overnight ☐ Ground ☐ International Priority
☐ Other_____

Billing: ☐ Recipient ☑ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 7713 0483 9887

Custody Seal on Cooler/Box Present: ☐Yes ☐No **Seals intact:** ☐ Yes ☐ No **Ice:** Wet Blue Dry None

Packing Material: ☐Bubble Wrap ☐ Bubble Bags ☐None ☐Other_____

Samples shorted to lab (If Yes, complete) Shorted Date:_____ Shorted Time:_____ Qty:_____

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☑N/A	Preservation Information: Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐ No ☑N/A	
Headspace in VOA Vials? (>6mm):	☑Yes ☑ No ☐N/A	PBD See Comments
Trip Blank Present:	☑Yes ☐ No ☐N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): Trip Blanks 2/2 have headspace

Project Manager Review: _____ Date: _____

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

February 13, 2018

Beth Norman
Cardno
2420 Lakeshore Drive
Suite 100
Tallahassee, FL 32308

RE: Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Dear Beth Norman:
Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Roger Durham, Cardno
Sid O'Neal, Cardno

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

CERTIFICATIONS

Project:	Former 3D Oil Distribution
Pace Project No.:	35371290

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

SAMPLE SUMMARY

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35371290001	**MW-12**	Water	02/01/18 07:16	02/01/18 11:36
35371290002	**MW-4**	Water	02/01/18 07:57	02/01/18 11:36
35371290003	**MW-5**	Water	02/01/18 08:36	02/01/18 11:36
35371290004	**MW-2**	Water	02/01/18 09:23	02/01/18 11:36
35371290005	**MW-11**	Water	02/01/18 10:18	02/01/18 11:36
35371290006	**MW-1**	Water	02/01/18 10:58	02/01/18 11:36
35371290007	**TRIP BLANK**	Water	02/01/18 00:00	02/01/18 12:22

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

SAMPLE ANALYTE COUNT

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35371290001	**MW-12**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	BTN	7	PASI-O
35371290002	**MW-4**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	BTN	7	PASI-O
35371290003	**MW-5**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371290004	**MW-2**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371290005	**MW-11**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	BTN, SK1	7	PASI-O
35371290006	**MW-1**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371290007	**TRIP BLANK**	EPA 8260	SK1	8	PASI-O

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: MW-12 **Lab ID: 35371290001** Collected: 02/01/18 07:16 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.94**	Std. Units			1		02/13/18 14:11		
Field Temperature	**20.33**	deg C			1		02/13/18 14:11		
Field Specific Conductance	**1383**	umhos/cm			1		02/13/18 14:11		
Oxygen, Dissolved	**0.86**	mg/L			1		02/13/18 14:11	7782-44-7	
REDOX	**-108.6**	mV			1		02/13/18 14:11		
Turbidity	**4.31**	NTU			1		02/13/18 14:11		
Depth to Water	**3.37**	feet			1		02/13/18 14:11		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 13:43	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 13:43	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 13:43	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 13:43	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 13:43	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 13:43	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 13:43	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 13:43	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 13:43	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 13:43	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 13:43	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 13:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 13:43	193-39-5	
1-Methylnaphthalene	**0.034 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 13:43	90-12-0	
2-Methylnaphthalene	**0.071 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 13:43	91-57-6	
Naphthalene	**0.069 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 13:43	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 13:43	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 13:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	33-101		1	02/05/18 14:05	02/07/18 13:43	321-60-8	
p-Terphenyl-d14 (S)	70	%	38-115		1	02/05/18 14:05	02/07/18 13:43	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/07/18 15:33	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/07/18 15:33	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/07/18 15:33	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/07/18 15:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		02/07/18 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		02/07/18 15:33	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		02/07/18 15:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: MW-4 **Lab ID: 35371290002** Collected: 02/01/18 07:57 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.70**	Std. Units			1		02/13/18 14:11		
Field Temperature	**20.16**	deg C			1		02/13/18 14:11		
Field Specific Conductance	**218**	umhos/cm			1		02/13/18 14:11		
Oxygen, Dissolved	**0.41**	mg/L			1		02/13/18 14:11	7782-44-7	
REDOX	**-22.2**	mV			1		02/13/18 14:11		
Turbidity	**3.53**	NTU			1		02/13/18 14:11		
Depth to Water	**6.32**	feet			1		02/13/18 14:11		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 14:06	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 14:06	208-96-8	
Anthracene	**0.029 I**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 14:06	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 14:06	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 14:06	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 14:06	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 14:06	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 14:06	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 14:06	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 14:06	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 14:06	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 14:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 14:06	193-39-5	
1-Methylnaphthalene	**0.064 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 14:06	90-12-0	
2-Methylnaphthalene	**0.11 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 14:06	91-57-6	
Naphthalene	**0.16 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 14:06	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 14:06	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 14:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	33-101		1	02/05/18 14:05	02/07/18 14:06	321-60-8	
p-Terphenyl-d14 (S)	72	%	38-115		1	02/05/18 14:05	02/07/18 14:06	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/07/18 16:22	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/07/18 16:22	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/07/18 16:22	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/07/18 16:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		02/07/18 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		02/07/18 16:22	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		02/07/18 16:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: MW-5 **Lab ID: 35371290003** Collected: 02/01/18 08:36 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.80**	Std. Units			1		02/13/18 14:12		
Field Temperature	**21.28**	deg C			1		02/13/18 14:12		
Field Specific Conductance	**173**	umhos/cm			1		02/13/18 14:12		
Oxygen, Dissolved	**0.99**	mg/L			1		02/13/18 14:12	7782-44-7	
REDOX	**+13.4**	mV			1		02/13/18 14:12		
Turbidity	**3.69**	NTU			1		02/13/18 14:12		
Depth to Water	**6.35**	feet			1		02/13/18 14:12		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 14:28	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 14:28	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 14:28	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 14:28	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 14:28	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 14:28	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 14:28	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 14:28	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 14:28	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 14:28	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 14:28	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 14:28	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 14:28	193-39-5	
1-Methylnaphthalene	**0.025 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 14:28	90-12-0	
2-Methylnaphthalene	**0.038 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 14:28	91-57-6	
Naphthalene	**0.10 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 14:28	91-20-3	
Phenanthrene	**0.045 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 14:28	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 14:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	33-101		1	02/05/18 14:05	02/07/18 14:28	321-60-8	
p-Terphenyl-d14 (S)	71	%	38-115		1	02/05/18 14:05	02/07/18 14:28	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 15:22	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 15:22	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 15:22	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 15:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		02/08/18 15:22	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		02/08/18 15:22	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		02/08/18 15:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: MW-2 **Lab ID: 35371290004** Collected: 02/01/18 09:23 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.16**	Std. Units			1		02/13/18 14:13		
Field Temperature	**20.78**	deg C			1		02/13/18 14:13		
Field Specific Conductance	**354**	umhos/cm			1		02/13/18 14:13		
Oxygen, Dissolved	**0.34**	mg/L			1		02/13/18 14:13	7782-44-7	
REDOX	**-179.9**	mV			1		02/13/18 14:13		
Turbidity	**8.69**	NTU			1		02/13/18 14:13		
Depth to Water	**6.00**	feet			1		02/13/18 14:13		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.34 I**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 14:50	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 14:50	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 14:50	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 14:50	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 14:50	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 14:50	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 14:50	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 14:50	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 14:50	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 14:50	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 14:50	206-44-0	
Fluorene	**0.58**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 14:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 14:50	193-39-5	
1-Methylnaphthalene	**29.9**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 14:50	90-12-0	
2-Methylnaphthalene	**40.4**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 14:50	91-57-6	
Naphthalene	**61.3**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 14:50	91-20-3	
Phenanthrene	**0.28 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 14:50	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 14:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	33-101		1	02/05/18 14:05	02/07/18 14:50	321-60-8	
p-Terphenyl-d14 (S)	74	%	38-115		1	02/05/18 14:05	02/07/18 14:50	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 15:46	71-43-2	
Ethylbenzene	**52.9**	ug/L	1.0	0.50	1		02/08/18 15:46	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 15:46	108-88-3	
Xylene (Total)	**293**	ug/L	5.0	1.5	1		02/08/18 15:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%	89-111		1		02/08/18 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		02/08/18 15:46	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		02/08/18 15:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: MW-11 **Lab ID: 35371290005** Collected: 02/01/18 10:18 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.78**	Std. Units			1		02/13/18 14:14		
Field Temperature	**21.73**	deg C			1		02/13/18 14:14		
Field Specific Conductance	**325**	umhos/cm			1		02/13/18 14:14		
Oxygen, Dissolved	**0.35**	mg/L			1		02/13/18 14:14	7782-44-7	
REDOX	**-140.9**	mV			1		02/13/18 14:14		
Depth to Water	**5.84**	feet			1		02/13/18 14:14		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.65**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 15:13	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 15:13	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 15:13	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 15:13	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 15:13	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 15:13	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 15:13	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 15:13	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 15:13	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 15:13	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 15:13	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 15:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 15:13	193-39-5	
1-Methylnaphthalene	**17.9**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 15:13	90-12-0	
2-Methylnaphthalene	**26.4**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 15:13	91-57-6	
Naphthalene	**79.7**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 15:13	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 15:13	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 15:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	33-101		1	02/05/18 14:05	02/07/18 15:13	321-60-8	
p-Terphenyl-d14 (S)	53	%	38-115		1	02/05/18 14:05	02/07/18 15:13	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.36 I**	ug/L	1.0	0.10	1		02/08/18 16:11	71-43-2	
Ethylbenzene	**297**	ug/L	10.0	5.0	10		02/09/18 18:00	100-41-4	
Toluene	**3.9**	ug/L	1.0	0.50	1		02/08/18 16:11	108-88-3	
Xylene (Total)	**366**	ug/L	5.0	1.5	1		02/08/18 16:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	89-111		1		02/08/18 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	75-135		1		02/08/18 16:11	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		02/08/18 16:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: MW-1 **Lab ID: 35371290006** Collected: 02/01/18 10:58 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.60**	Std. Units			1		02/13/18 14:15		
Field Temperature	**21.56**	deg C			1		02/13/18 14:15		
Field Specific Conductance	**248**	umhos/cm			1		02/13/18 14:15		
Oxygen, Dissolved	**0.33**	mg/L			1		02/13/18 14:15	7782-44-7	
REDOX	**-95.7**	mV			1		02/13/18 14:15		
Turbidity	**19.6**	NTU			1		02/13/18 14:15		
Depth to Water	**6.60**	feet			1		02/13/18 14:15		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 15:35	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 15:35	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 15:35	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 15:35	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 15:35	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 15:35	205-99-2	
Benzo(g,h,i)perylene	**0.083 I**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 15:35	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 15:35	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 15:35	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 15:35	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 15:35	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 15:35	193-39-5	
1-Methylnaphthalene	**3.8**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 15:35	90-12-0	
2-Methylnaphthalene	**4.8**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 15:35	91-57-6	
Naphthalene	**29.3**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 15:35	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 15:35	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 15:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	33-101		1	02/05/18 14:05	02/07/18 15:35	321-60-8	
p-Terphenyl-d14 (S)	58	%	38-115		1	02/05/18 14:05	02/07/18 15:35	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 16:35	71-43-2	
Ethylbenzene	**79.3**	ug/L	1.0	0.50	1		02/08/18 16:35	100-41-4	
Toluene	**1.3**	ug/L	1.0	0.50	1		02/08/18 16:35	108-88-3	
Xylene (Total)	**81.4**	ug/L	5.0	1.5	1		02/08/18 16:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	89-111		1		02/08/18 16:35	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	75-135		1		02/08/18 16:35	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		02/08/18 16:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Sample: TRIP BLANK **Lab ID: 35371290007** Collected: 02/01/18 00:00 Received: 02/01/18 12:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 16:59	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 16:59	100-41-4	
Methyl-tert-butyl ether	**0.50 U**	ug/L	2.0	0.50	1		02/08/18 16:59	1634-04-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 16:59	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 16:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	89-111		1		02/08/18 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	75-135		1		02/08/18 16:59	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		02/08/18 16:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

QC Batch: 424182 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371290001, 35371290002

METHOD BLANK: 2308103 Matrix: Water
Associated Lab Samples: 35371290001, 35371290002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/07/18 10:16	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/07/18 10:16	
Toluene	ug/L	0.50 U	1.0	0.50	02/07/18 10:16	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/07/18 10:16	
1,2-Dichloroethane-d4 (S)	%	103	75-135		02/07/18 10:16	
4-Bromofluorobenzene (S)	%	100	89-111		02/07/18 10:16	
Toluene-d8 (S)	%	98	89-112		02/07/18 10:16	

LABORATORY CONTROL SAMPLE: 2308104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.7	103	70-130	
Ethylbenzene	ug/L	20	22.3	111	70-130	
Toluene	ug/L	20	20.9	104	70-130	
Xylene (Total)	ug/L	60	70.8	118	70-130	
1,2-Dichloroethane-d4 (S)	%			92	75-135	
4-Bromofluorobenzene (S)	%			105	89-111	
Toluene-d8 (S)	%			97	89-112	

MATRIX SPIKE SAMPLE: 2309015

Parameter	Units	35371290002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.10 U	20	21.0	105	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.3	107	70-130	
Toluene	ug/L	0.50 U	20	20.2	101	70-130	
Xylene (Total)	ug/L	1.5 U	60	69.3	115	70-130	
1,2-Dichloroethane-d4 (S)	%				92	75-135	
4-Bromofluorobenzene (S)	%				105	89-111	
Toluene-d8 (S)	%				97	89-112	

SAMPLE DUPLICATE: 2309014

Parameter	Units	35371290001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

SAMPLE DUPLICATE: 2309014

Parameter	Units	35371290001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	100	102	2	40	
4-Bromofluorobenzene (S)	%	100	100	0	40	
Toluene-d8 (S)	%	97	98	0	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
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(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

QC Batch: 424427 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371290003, 35371290004, 35371290005, 35371290006, 35371290007

METHOD BLANK: 2309788 Matrix: Water
Associated Lab Samples: 35371290003, 35371290004, 35371290005, 35371290006, 35371290007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/08/18 11:19	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/08/18 11:19	
Methyl-tert-butyl ether	ug/L	0.50 U	2.0	0.50	02/08/18 11:19	
Toluene	ug/L	0.50 U	1.0	0.50	02/08/18 11:19	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/08/18 11:19	
1,2-Dichloroethane-d4 (S)	%	101	75-135		02/08/18 11:19	
4-Bromofluorobenzene (S)	%	102	89-111		02/08/18 11:19	
Toluene-d8 (S)	%	100	89-112		02/08/18 11:19	

LABORATORY CONTROL SAMPLE: 2309789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.1	100	70-130	
Ethylbenzene	ug/L	20	21.4	107	70-130	
Methyl-tert-butyl ether	ug/L	20	18.1	91	64-133	
Toluene	ug/L	20	20.9	104	70-130	
Xylene (Total)	ug/L	60	68.3	114	70-130	
1,2-Dichloroethane-d4 (S)	%			92	75-135	
4-Bromofluorobenzene (S)	%			108	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2311590

Parameter	Units	35370586002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.94 I	20	19.2	91	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.6	93	70-130	
Methyl-tert-butyl ether	ug/L	0.50 U	20	16.0	78	64-133	
Toluene	ug/L	0.50 U	20	18.3	90	70-130	
Xylene (Total)	ug/L	1.5 U	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%				96	75-135	
4-Bromofluorobenzene (S)	%				105	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2311589

Parameter	Units	35370586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

SAMPLE DUPLICATE: 2311589

Parameter	Units	35370586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Methyl-tert-butyl ether	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	105	102	2	40	
4-Bromofluorobenzene (S)	%	100	94	6	40	
Toluene-d8 (S)	%	105	99	6	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

QC Batch: 423300 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35371290001, 35371290002, 35371290003, 35371290004, 35371290005, 35371290006

METHOD BLANK: 2303888 Matrix: Water
Associated Lab Samples: 35371290001, 35371290002, 35371290003, 35371290004, 35371290005, 35371290006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.015 U	2.0	0.015	02/07/18 10:22	
2-Methylnaphthalene	ug/L	0.019 U	2.0	0.019	02/07/18 10:22	
Acenaphthene	ug/L	0.013 U	0.50	0.013	02/07/18 10:22	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	02/07/18 10:22	
Anthracene	ug/L	0.012 U	0.50	0.012	02/07/18 10:22	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	02/07/18 10:22	
Benzo(a)pyrene	ug/L	0.020 U	0.10	0.020	02/07/18 10:22	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	02/07/18 10:22	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	02/07/18 10:22	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	02/07/18 10:22	
Chrysene	ug/L	0.026 U	0.50	0.026	02/07/18 10:22	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	02/07/18 10:22	
Fluoranthene	ug/L	0.018 U	0.50	0.018	02/07/18 10:22	
Fluorene	ug/L	0.016 U	0.50	0.016	02/07/18 10:22	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	02/07/18 10:22	
Naphthalene	ug/L	0.014 U	2.0	0.014	02/07/18 10:22	
Phenanthrene	ug/L	0.018 U	0.50	0.018	02/07/18 10:22	
Pyrene	ug/L	0.019 U	0.50	0.019	02/07/18 10:22	
2-Fluorobiphenyl (S)	%	53	33-101		02/07/18 10:22	
p-Terphenyl-d14 (S)	%	63	38-115		02/07/18 10:22	

LABORATORY CONTROL SAMPLE: 2303889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.4	69	33-118	
2-Methylnaphthalene	ug/L	5	2.6	52	34-104	
Acenaphthene	ug/L	5	3.3	67	38-109	
Acenaphthylene	ug/L	5	2.3	46	31-115	
Anthracene	ug/L	5	3.1	62	38-111	
Benzo(a)anthracene	ug/L	5	3.1	61	36-110	
Benzo(a)pyrene	ug/L	5	4.4	88	27-107	
Benzo(b)fluoranthene	ug/L	5	3.6	73	32-119	
Benzo(g,h,i)perylene	ug/L	5	3.4	67	10-109	
Benzo(k)fluoranthene	ug/L	5	5.0	100	28-118	
Chrysene	ug/L	5	6.4	127	33-130	
Dibenz(a,h)anthracene	ug/L	5	3.2	65	10-104	
Fluoranthene	ug/L	5	3.6	73	45-115	
Fluorene	ug/L	5	3.2	64	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.3	66	10-104	
Naphthalene	ug/L	5	2.9	58	38-100	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

LABORATORY CONTROL SAMPLE: 2303889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	3.4	68	41-106	
Pyrene	ug/L	5	3.8	77	45-115	
2-Fluorobiphenyl (S)	%			59	33-101	
p-Terphenyl-d14 (S)	%			70	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305120 2305121

Parameter	Units	35371272010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.015 U	5	5	3.9	3.5	78	70	33-118	11	40	
2-Methylnaphthalene	ug/L	0.019 U	5	5	3.1	2.7	62	54	34-104	14	40	
Acenaphthene	ug/L	0.013 U	5	5	3.9	3.4	78	68	38-109	14	40	
Acenaphthylene	ug/L	0.012 U	5	5	2.7	2.4	55	48	31-115	13	40	
Anthracene	ug/L	0.012 U	5	5	3.7	3.5	74	69	38-111	6	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	3.2	3.3	64	67	36-110	4	40	
Benzo(a)pyrene	ug/L	0.020 U	5	5	4.7	4.3	94	86	27-107	9	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.9	3.4	78	68	32-119	14	40	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	5	4.0	3.4	80	68	10-109	17	40	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5	5.3	5.1	106	102	28-118	5	40	
Chrysene	ug/L	0.026 U	5	5	7.0	6.1	139	123	33-130	13	40	J(M1)
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.0	3.4	79	68	10-104	15	40	
Fluoranthene	ug/L	0.018 U	5	5	3.9	3.7	78	74	45-115	6	40	
Fluorene	ug/L	0.016 U	5	5	3.7	3.3	73	67	41-114	10	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	4.0	3.4	79	68	10-104	15	40	
Naphthalene	ug/L	0.041 I	5	5	3.5	3.0	68	58	38-100	15	40	
Phenanthrene	ug/L	0.018 U	5	5	3.8	3.5	77	69	41-106	10	40	
Pyrene	ug/L	0.019 U	5	5	4.1	3.9	82	78	45-115	5	40	
2-Fluorobiphenyl (S)	%						69	59	33-101			
p-Terphenyl-d14 (S)	%						72	69	38-115			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALIFIERS

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
CU	The continuing calibration for this analyte is above laboratory acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former 3D Oil Distribution
Pace Project No.: 35371290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35371290001	**MW-12**				
35371290002	**MW-4**				
35371290003	**MW-5**				
35371290004	**MW-2**				
35371290005	**MW-11**				
35371290006	**MW-1**				
35371290001	**MW-12**	EPA 3510	423300	EPA 8270 by SIM	424045
35371290002	**MW-4**	EPA 3510	423300	EPA 8270 by SIM	424045
35371290003	**MW-5**	EPA 3510	423300	EPA 8270 by SIM	424045
35371290004	**MW-2**	EPA 3510	423300	EPA 8270 by SIM	424045
35371290005	**MW-11**	EPA 3510	423300	EPA 8270 by SIM	424045
35371290006	**MW-1**	EPA 3510	423300	EPA 8270 by SIM	424045
35371290001	**MW-12**	EPA 8260	424182		
35371290002	**MW-4**	EPA 8260	424182		
35371290003	**MW-5**	EPA 8260	424427		
35371290004	**MW-2**	EPA 8260	424427		
35371290005	**MW-11**	EPA 8260	424427		
35371290006	**MW-1**	EPA 8260	424427		
35371290007	**TRIP BLANK**	EPA 8260	424427		

WO# : 35371290

Pace Analytical

35371290

:HAIN-OF-CUSTODY / Analytical Request Document

ıe Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Cardno
Address:	2420 Lakeshore Drive
Suite 100,	Tallahassee, FL 32312
Email:	
Phone:	Fax
Requested Due Date:	

Required Project Information:

Report To:	Beth Norman
Copy To:	
Purchase Order #:	
Project Name:	Former 3D Oil Distribution
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	lori.palmer@pacelabs.com,
Pace Profile #:	8106 line 3

Regulatory Agency	
State / Location	
FL	

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Trip BLANK	8260 BTEX	PAH by 8270 SIM (low vol)	PAH by 8270 SIM (low vol)	Residual Chlorine (Y/N)	
1	MW-12			2/1/18	716				3											1	2				One 8260 vial Broke
2	MW-4			2/1/18	757				4											1	3				
3	MW-5			2/1/18	836				4											1	3				
4	MW-2			2/1/18	923				4											1	3				
5	MW-11			2/1/18	1018				4											1	3				
6	MW-1			2/1/18	1058				4											1	3				
7																									
8																									
9																									
10																									
11																									
12																									

	ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Empty Containers		1/23/18	1520							
			2/1/18	1130		2-1	1130	6.6	Y	N	N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BOB Hamill

SIGNATURE of SAMPLER:

DATE Signed: 2/1/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35371290

Project Manager: PM: LAP **Due Date:** 02/08/18

Client: CLIENT: 37-CATBCLE

Date and Initials of person:
Examining contents: UMP
Label:
Deliver:
pH:

Thermometer Used: T-301 Date: 2-1 Time: 1136 Initials: UMP

State of Origin: _____

Cooler #1 Temp.°C	6.6 (Visual)	+.0 (Correction Factor)	6.6 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	3.7 (Visual)	T.0 (Correction Factor)	3.7 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other_____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other_____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☑ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Samples shorted to lab (If Yes, complete) Shorted Date:_____ Shorted Time:_____ Qty:_____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☐ Yes ☑ No ☐ N/A	one broken vial.
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☑ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐ Yes ☐ No ☑ N/A	Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted:_____ Date/Time:_____

Comments/ Resolution (use back for additional comments):_____

Project Manager Review:_____ Date:_____

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

February 14, 2018

Beth Norman
Cardno
2420 Lakeshore Drive
Suite 100
Tallahassee, FL 32308

RE: Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Dear Beth Norman:
Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lori Palmer
lori.palmer@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Roger Durham, Cardno
Sid O'Neal, Cardno

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

CERTIFICATIONS

Project:	Former 3D Oil Distribution
Pace Project No.:	35371296

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35371296001	**MW-3**	Water	01/31/18 08:52	02/01/18 11:36
35371296002	**MW-7**	Water	01/31/18 09:41	02/01/18 11:36
35371296003	**MW-8**	Water	01/31/18 10:29	02/01/18 11:36
35371296004	**DMW-2**	Water	01/31/18 12:38	02/01/18 11:36
35371296005	**MW-9**	Water	01/31/18 13:25	02/01/18 11:36
35371296007	**MW-13**	Water	01/31/18 14:14	02/01/18 11:36
35371296008	**MW-14**	Water	01/31/18 15:01	02/01/18 11:36
35371296009	**DMW-1R**	Water	01/31/18 16:40	02/01/18 11:36
35371296010	**MW-10R**	Water	01/31/18 17:28	02/01/18 11:36
35371296011	**MW-6**	Water	01/31/18 18:19	02/01/18 11:36
35371296012	**TRIP BLANKS**	Water	01/31/18 00:00	02/01/18 11:36

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SAMPLE ANALYTE COUNT

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35371296001	**MW-3**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371296002	**MW-7**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371296003	**MW-8**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	BTN, SK1	7	PASI-O
35371296004	**DMW-2**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	BTN	7	PASI-O
35371296005	**MW-9**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	BTN	7	PASI-O
35371296007	**MW-13**	EPA 8270 by SIM	TWB	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371296008	**MW-14**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371296009	**DMW-1R**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	SK1	7	PASI-O
35371296010	**MW-10R**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	BTN, SK1	7	PASI-O
35371296011	**MW-6**	EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	BTN	7	PASI-O
35371296012	**TRIP BLANKS**	EPA 8260	SK1	7	PASI-O

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-3 **Lab ID: 35371296001** Collected: 01/31/18 08:52 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.87**	Std. Units			1		02/13/18 14:21		
Field Temperature	**19.95**	deg C			1		02/13/18 14:21		
Field Specific Conductance	**199**	umhos/cm			1		02/13/18 14:21		
Oxygen, Dissolved	**0.31**	mg/L			1		02/13/18 14:21	7782-44-7	
REDOX	**-86.4**	mV			1		02/13/18 14:21		
Turbidity	**4.26**	NTU			1		02/13/18 14:21		
Depth to Water	**6.20**	feet			1		02/13/18 14:21		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**3.7**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 15:57	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 15:57	208-96-8	
Anthracene	**2.3**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 15:57	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 15:57	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 15:57	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 15:57	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 15:57	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 15:57	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 15:57	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 15:57	53-70-3	
Fluoranthene	**2.6**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 15:57	206-44-0	
Fluorene	**0.21 I**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 15:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 15:57	193-39-5	
1-Methylnaphthalene	**4.0**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 15:57	90-12-0	
2-Methylnaphthalene	**4.8**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 15:57	91-57-6	
Naphthalene	**1.7 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 15:57	91-20-3	
Phenanthrene	**6.0**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 15:57	85-01-8	
Pyrene	**1.1**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 15:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	33-101		1	02/05/18 14:05	02/07/18 15:57	321-60-8	
p-Terphenyl-d14 (S)	75	%	38-115		1	02/05/18 14:05	02/07/18 15:57	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 03:31	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 03:31	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 03:31	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 03:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		02/08/18 03:31	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		02/08/18 03:31	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/08/18 03:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-7 **Lab ID: 35371296002** Collected: 01/31/18 09:41 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.51**	Std. Units			1		02/13/18 14:22		
Field Temperature	**21.61**	deg C			1		02/13/18 14:22		
Field Specific Conductance	**315**	umhos/cm			1		02/13/18 14:22		
Oxygen, Dissolved	**0.29**	mg/L			1		02/13/18 14:22	7782-44-7	
REDOX	**-33.1**	mV			1		02/13/18 14:22		
Turbidity	**5.46**	NTU			1		02/13/18 14:22		
Depth to Water	**5.34**	feet			1		02/13/18 14:22		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**1.4**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 16:20	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 16:20	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 16:20	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 16:20	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 16:20	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 16:20	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 16:20	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 16:20	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 16:20	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 16:20	53-70-3	
Fluoranthene	**0.030 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 16:20	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 16:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 16:20	193-39-5	
1-Methylnaphthalene	**0.16 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 16:20	90-12-0	
2-Methylnaphthalene	**0.20 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 16:20	91-57-6	
Naphthalene	**0.17 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 16:20	91-20-3	
Phenanthrene	**0.20 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 16:20	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 16:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	33-101		1	02/05/18 14:05	02/07/18 16:20	321-60-8	
p-Terphenyl-d14 (S)	72	%	38-115		1	02/05/18 14:05	02/07/18 16:20	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 03:56	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 03:56	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 03:56	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 03:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		02/08/18 03:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-135		1		02/08/18 03:56	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		02/08/18 03:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-8 **Lab ID: 35371296003** Collected: 01/31/18 10:29 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.25**	Std. Units			1		02/13/18 14:23		
Field Temperature	**20.36**	deg C			1		02/13/18 14:23		
Field Specific Conductance	**496**	umhos/cm			1		02/13/18 14:23		
Oxygen, Dissolved	**0.24**	mg/L			1		02/13/18 14:23	7782-44-7	
REDOX	**-184.3**	mV			1		02/13/18 14:23		
Turbidity	**5.05**	NTU			1		02/13/18 14:23		
Depth to Water	**5.33**	feet			1		02/13/18 14:23		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.82**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 16:42	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 16:42	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 16:42	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 16:42	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 16:42	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 16:42	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 16:42	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 16:42	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 16:42	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 16:42	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 16:42	206-44-0	
Fluorene	**0.37 I**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 16:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 16:42	193-39-5	
1-Methylnaphthalene	**26.5**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 16:42	90-12-0	
2-Methylnaphthalene	**37.2**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 16:42	91-57-6	
Naphthalene	**128**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 16:42	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 16:42	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 16:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	33-101		1	02/05/18 14:05	02/07/18 16:42	321-60-8	
p-Terphenyl-d14 (S)	71	%	38-115		1	02/05/18 14:05	02/07/18 16:42	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 17:24	71-43-2	
Ethylbenzene	**164**	ug/L	1.0	0.50	1		02/08/18 17:24	100-41-4	
Toluene	**0.96 I**	ug/L	1.0	0.50	1		02/08/18 17:24	108-88-3	
Xylene (Total)	**229**	ug/L	50.0	15.0	10		02/09/18 18:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	89-111		1		02/08/18 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	75-135		1		02/08/18 17:24	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		02/08/18 17:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: DMW-2 **Lab ID: 35371296004** Collected: 01/31/18 12:38 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.49**	Std. Units			1		02/13/18 14:23		
Field Temperature	**21.65**	deg C			1		02/13/18 14:23		
Field Specific Conductance	**1016**	umhos/cm			1		02/13/18 14:23		
Oxygen, Dissolved	**0.88**	mg/L			1		02/13/18 14:23	7782-44-7	
REDOX	**-5.9**	mV			1		02/13/18 14:23		
Turbidity	**3.64**	NTU			1		02/13/18 14:23		
Depth to Water	**5.34**	feet			1		02/13/18 14:23		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 17:05	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 17:05	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 17:05	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 17:05	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 17:05	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 17:05	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 17:05	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 17:05	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 17:05	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 17:05	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 17:05	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 17:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 17:05	193-39-5	
1-Methylnaphthalene	**0.73 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 17:05	90-12-0	
2-Methylnaphthalene	**0.86 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 17:05	91-57-6	
Naphthalene	**2.0**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 17:05	91-20-3	
Phenanthrene	**0.10 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 17:05	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 17:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	33-101		1	02/05/18 14:05	02/07/18 17:05	321-60-8	
p-Terphenyl-d14 (S)	69	%	38-115		1	02/05/18 14:05	02/07/18 17:05	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/09/18 17:26	71-43-2	
Ethylbenzene	**2.4**	ug/L	1.0	0.50	1		02/09/18 17:26	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/09/18 17:26	108-88-3	
Xylene (Total)	**2.8 I**	ug/L	5.0	1.5	1		02/09/18 17:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	89-111		1		02/09/18 17:26	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	75-135		1		02/09/18 17:26	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		02/09/18 17:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-9 **Lab ID: 35371296005** Collected: 01/31/18 13:25 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.67**	Std. Units			1		02/13/18 14:24		
Field Temperature	**20.89**	deg C			1		02/13/18 14:24		
Field Specific Conductance	**450**	umhos/cm			1		02/13/18 14:24		
Oxygen, Dissolved	**0.26**	mg/L			1		02/13/18 14:24	7782-44-7	
REDOX	**-30.4**	mV			1		02/13/18 14:24		
Turbidity	**9.30**	NTU			1		02/13/18 14:24		
Depth to Water	**5.15**	feet			1		02/13/18 14:24		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 17:27	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 17:27	208-96-8	
Anthracene	**0.031 I**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 17:27	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 17:27	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 17:27	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 17:27	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 17:27	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 17:27	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 17:27	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 17:27	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 17:27	206-44-0	
Fluorene	**0.032 I**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 17:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 17:27	193-39-5	
1-Methylnaphthalene	**1.8 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 17:27	90-12-0	
2-Methylnaphthalene	**1.5 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 17:27	91-57-6	
Naphthalene	**1.0 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 17:27	91-20-3	
Phenanthrene	**0.043 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 17:27	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 17:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	33-101		1	02/05/18 14:05	02/07/18 17:27	321-60-8	
p-Terphenyl-d14 (S)	70	%	38-115		1	02/05/18 14:05	02/07/18 17:27	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/09/18 17:51	71-43-2	
Ethylbenzene	**0.79 I**	ug/L	1.0	0.50	1		02/09/18 17:51	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/09/18 17:51	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/09/18 17:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	89-111		1		02/09/18 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	75-135		1		02/09/18 17:51	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/09/18 17:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Oldsmar , FL 34677
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ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-13 **Lab ID: 35371296007** Collected: 01/31/18 14:14 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.73**	Std. Units			1		02/13/18 14:28		
Field Temperature	**22.35**	deg C			1		02/13/18 14:28		
Field Specific Conductance	**282**	umhos/cm			1		02/13/18 14:28		
Oxygen, Dissolved	**4.13**	mg/L			1		02/13/18 14:28	7782-44-7	
REDOX	**+67.8**	mV			1		02/13/18 14:28		
Turbidity	**17.2**	NTU			1		02/13/18 14:28		
Depth to Water	**6.39**	feet			1		02/13/18 14:28		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 14:05	02/07/18 17:49	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 17:49	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 14:05	02/07/18 17:49	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 14:05	02/07/18 17:49	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 14:05	02/07/18 17:49	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 14:05	02/07/18 17:49	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 14:05	02/07/18 17:49	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 14:05	02/07/18 17:49	207-08-9	CU
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 14:05	02/07/18 17:49	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 14:05	02/07/18 17:49	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 17:49	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 14:05	02/07/18 17:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 14:05	02/07/18 17:49	193-39-5	
1-Methylnaphthalene	**0.031 I**	ug/L	2.0	0.015	1	02/05/18 14:05	02/07/18 17:49	90-12-0	
2-Methylnaphthalene	**0.035 I**	ug/L	2.0	0.019	1	02/05/18 14:05	02/07/18 17:49	91-57-6	
Naphthalene	**0.10 I**	ug/L	2.0	0.014	1	02/05/18 14:05	02/07/18 17:49	91-20-3	
Phenanthrene	**0.024 I**	ug/L	0.50	0.018	1	02/05/18 14:05	02/07/18 17:49	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 14:05	02/07/18 17:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	33-101		1	02/05/18 14:05	02/07/18 17:49	321-60-8	
p-Terphenyl-d14 (S)	71	%	38-115		1	02/05/18 14:05	02/07/18 17:49	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 18:37	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 18:37	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 18:37	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		02/08/18 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-135		1		02/08/18 18:37	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		02/08/18 18:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-14 **Lab ID: 35371296008** Collected: 01/31/18 15:01 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.78**	Std. Units			1		02/13/18 14:28		
Field Temperature	**22.21**	deg C			1		02/13/18 14:28		
Field Specific Conductance	**253**	umhos/cm			1		02/13/18 14:28		
Oxygen, Dissolved	**2.77**	mg/L			1		02/13/18 14:28	7782-44-7	
REDOX	**+87.0**	mV			1		02/13/18 14:28		
Turbidity	**15.2**	NTU			1		02/13/18 14:28		
Depth to Water	**6.39**	feet			1		02/13/18 14:28		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 00:20	02/08/18 20:43	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 20:43	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 20:43	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 00:20	02/08/18 20:43	56-55-3	
Benzo(a)pyrene	**0.078 I**	ug/L	0.10	0.020	1	02/05/18 00:20	02/08/18 20:43	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 00:20	02/08/18 20:43	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 00:20	02/08/18 20:43	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 00:20	02/08/18 20:43	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 00:20	02/08/18 20:43	218-01-9	J(L1)
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 00:20	02/08/18 20:43	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 20:43	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 00:20	02/08/18 20:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 00:20	02/08/18 20:43	193-39-5	
1-Methylnaphthalene	**0.036 I**	ug/L	2.0	0.015	1	02/05/18 00:20	02/08/18 20:43	90-12-0	
2-Methylnaphthalene	**0.076 I**	ug/L	2.0	0.019	1	02/05/18 00:20	02/08/18 20:43	91-57-6	
Naphthalene	**0.13 I**	ug/L	2.0	0.026	1	02/05/18 00:20	02/08/18 20:43	91-20-3	V
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 20:43	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 00:20	02/08/18 20:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	33-101		1	02/05/18 00:20	02/08/18 20:43	321-60-8	
p-Terphenyl-d14 (S)	100	%	38-115		1	02/05/18 00:20	02/08/18 20:43	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 19:01	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 19:01	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 19:01	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 19:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	89-111		1		02/08/18 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-135		1		02/08/18 19:01	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/08/18 19:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: DMW-1R **Lab ID: 35371296009** Collected: 01/31/18 16:40 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**8.73**	Std. Units			1		02/13/18 14:28		
Field Temperature	**21.91**	deg C			1		02/13/18 14:28		
Field Specific Conductance	**666**	umhos/cm			1		02/13/18 14:28		
Oxygen, Dissolved	**3.73**	mg/L			1		02/13/18 14:28	7782-44-7	
REDOX	**+73.9**	mV			1		02/13/18 14:28		
Turbidity	**2.71**	NTU			1		02/13/18 14:28		
Depth to Water	**6.41**	feet			1		02/13/18 14:28		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	02/05/18 00:20	02/08/18 21:10	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 21:10	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 21:10	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 00:20	02/08/18 21:10	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 00:20	02/08/18 21:10	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 00:20	02/08/18 21:10	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 00:20	02/08/18 21:10	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 00:20	02/08/18 21:10	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 00:20	02/08/18 21:10	218-01-9	J(L1)
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 00:20	02/08/18 21:10	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 21:10	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 00:20	02/08/18 21:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 00:20	02/08/18 21:10	193-39-5	
1-Methylnaphthalene	**0.030 I**	ug/L	2.0	0.015	1	02/05/18 00:20	02/08/18 21:10	90-12-0	
2-Methylnaphthalene	**0.057 I**	ug/L	2.0	0.019	1	02/05/18 00:20	02/08/18 21:10	91-57-6	
Naphthalene	**0.14 I**	ug/L	2.0	0.026	1	02/05/18 00:20	02/08/18 21:10	91-20-3	V
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 21:10	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 00:20	02/08/18 21:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	33-101		1	02/05/18 00:20	02/08/18 21:10	321-60-8	
p-Terphenyl-d14 (S)	93	%	38-115		1	02/05/18 00:20	02/08/18 21:10	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 19:26	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 19:26	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/08/18 19:26	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/08/18 19:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	89-111		1		02/08/18 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-135		1		02/08/18 19:26	17060-07-0	
Toluene-d8 (S)	100	%	89-112		1		02/08/18 19:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-10R **Lab ID: 35371296010** Collected: 01/31/18 17:28 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.27**	Std. Units			1		02/13/18 14:29		
Field Temperature	**21.60**	deg C			1		02/13/18 14:29		
Field Specific Conductance	**630**	umhos/cm			1		02/13/18 14:29		
Oxygen, Dissolved	**0.31**	mg/L			1		02/13/18 14:29	7782-44-7	
REDOX	**-308.5**	mV			1		02/13/18 14:29		
Turbidity	**12.12**	NTU			1		02/13/18 14:29		
Depth to Water	**6.07**	feet			1		02/13/18 14:29		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.19 I**	ug/L	0.50	0.013	1	02/05/18 00:20	02/08/18 22:30	83-32-9	
Acenaphthylene	**0.098 I**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 22:30	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 22:30	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 00:20	02/08/18 22:30	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 00:20	02/08/18 22:30	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 00:20	02/08/18 22:30	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 00:20	02/08/18 22:30	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 00:20	02/08/18 22:30	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 00:20	02/08/18 22:30	218-01-9	J(L1)
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 00:20	02/08/18 22:30	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 22:30	206-44-0	
Fluorene	**0.40 I**	ug/L	0.50	0.016	1	02/05/18 00:20	02/08/18 22:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 00:20	02/08/18 22:30	193-39-5	
1-Methylnaphthalene	**35.6**	ug/L	2.0	0.015	1	02/05/18 00:20	02/08/18 22:30	90-12-0	
2-Methylnaphthalene	**49.4**	ug/L	2.0	0.019	1	02/05/18 00:20	02/08/18 22:30	91-57-6	
Naphthalene	**0.026 U**	ug/L	2.0	0.026	1	02/05/18 00:20	02/08/18 22:30	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 22:30	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 00:20	02/08/18 22:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	33-101		1	02/05/18 00:20	02/08/18 22:30	321-60-8	
p-Terphenyl-d14 (S)	88	%	38-115		1	02/05/18 00:20	02/08/18 22:30	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/08/18 19:50	71-43-2	
Ethylbenzene	**288**	ug/L	10.0	5.0	10		02/09/18 18:49	100-41-4	
Toluene	**22.1**	ug/L	1.0	0.50	1		02/08/18 19:50	108-88-3	
Xylene (Total)	**683**	ug/L	50.0	15.0	10		02/09/18 18:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	109	%	89-111		1		02/08/18 19:50	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	75-135		1		02/08/18 19:50	17060-07-0	
Toluene-d8 (S)	101	%	89-112		1		02/08/18 19:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: MW-6 **Lab ID: 35371296011** Collected: 01/31/18 18:19 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.03**	Std. Units			1		02/13/18 14:30		
Field Temperature	**21.82**	deg C			1		02/13/18 14:30		
Field Specific Conductance	**435**	umhos/cm			1		02/13/18 14:30		
Oxygen, Dissolved	**0.25**	mg/L			1		02/13/18 14:30	7782-44-7	
REDOX	**-50.2**	mV			1		02/13/18 14:30		
Turbidity	**4.69**	NTU			1		02/13/18 14:30		
Depth to Water	**5.39**	feet			1		02/13/18 14:30		
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.020 I**	ug/L	0.50	0.013	1	02/05/18 00:20	02/08/18 22:57	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 22:57	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	02/05/18 00:20	02/08/18 22:57	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	02/05/18 00:20	02/08/18 22:57	56-55-3	
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	02/05/18 00:20	02/08/18 22:57	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	02/05/18 00:20	02/08/18 22:57	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	02/05/18 00:20	02/08/18 22:57	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	02/05/18 00:20	02/08/18 22:57	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	02/05/18 00:20	02/08/18 22:57	218-01-9	J(L1)
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	02/05/18 00:20	02/08/18 22:57	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 22:57	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	02/05/18 00:20	02/08/18 22:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	02/05/18 00:20	02/08/18 22:57	193-39-5	
1-Methylnaphthalene	**1.0 I**	ug/L	2.0	0.015	1	02/05/18 00:20	02/08/18 22:57	90-12-0	
2-Methylnaphthalene	**1.4 I**	ug/L	2.0	0.019	1	02/05/18 00:20	02/08/18 22:57	91-57-6	
Naphthalene	**1.9 I**	ug/L	2.0	0.026	1	02/05/18 00:20	02/08/18 22:57	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	02/05/18 00:20	02/08/18 22:57	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	02/05/18 00:20	02/08/18 22:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	33-101		1	02/05/18 00:20	02/08/18 22:57	321-60-8	
p-Terphenyl-d14 (S)	85	%	38-115		1	02/05/18 00:20	02/08/18 22:57	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/09/18 18:15	71-43-2	
Ethylbenzene	**3.5**	ug/L	1.0	0.50	1		02/09/18 18:15	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/09/18 18:15	108-88-3	
Xylene (Total)	**5.7**	ug/L	5.0	1.5	1		02/09/18 18:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	89-111		1		02/09/18 18:15	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	75-135		1		02/09/18 18:15	17060-07-0	
Toluene-d8 (S)	98	%	89-112		1		02/09/18 18:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

ANALYTICAL RESULTS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Sample: TRIP BLANKS **Lab ID: 35371296012** Collected: 01/31/18 00:00 Received: 02/01/18 11:36 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.10 U**	ug/L	1.0	0.10	1		02/07/18 23:03	71-43-2	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		02/07/18 23:03	100-41-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		02/07/18 23:03	108-88-3	
Xylene (Total)	**1.5 U**	ug/L	5.0	1.5	1		02/07/18 23:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	89-111		1		02/07/18 23:03	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-135		1		02/07/18 23:03	17060-07-0	
Toluene-d8 (S)	96	%	89-112		1		02/07/18 23:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

QC Batch: 424300 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371296001, 35371296002, 35371296012

METHOD BLANK: 2308963 Matrix: Water
Associated Lab Samples: 35371296001, 35371296002, 35371296012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/07/18 22:38	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/07/18 22:38	
Toluene	ug/L	0.50 U	1.0	0.50	02/07/18 22:38	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/07/18 22:38	
1,2-Dichloroethane-d4 (S)	%	100	75-135		02/07/18 22:38	
4-Bromofluorobenzene (S)	%	103	89-111		02/07/18 22:38	
Toluene-d8 (S)	%	97	89-112		02/07/18 22:38	

LABORATORY CONTROL SAMPLE: 2308964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	21.6	108	70-130	
Toluene	ug/L	20	20.3	102	70-130	
Xylene (Total)	ug/L	60	70.3	117	70-130	
1,2-Dichloroethane-d4 (S)	%			91	75-135	
4-Bromofluorobenzene (S)	%			107	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2310070

Parameter	Units	35370455002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.10 U	20	19.1	95	70-130	
Ethylbenzene	ug/L	0.50 U	20	20.5	102	70-130	
Toluene	ug/L	0.50 U	20	19.3	96	70-130	
Xylene (Total)	ug/L	1.5 U	60	65.6	109	70-130	
1,2-Dichloroethane-d4 (S)	%				82	75-135	
4-Bromofluorobenzene (S)	%				107	89-111	
Toluene-d8 (S)	%				75	89-112	J(S0)

SAMPLE DUPLICATE: 2310069

Parameter	Units	35370455001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

SAMPLE DUPLICATE: 2310069

Parameter	Units	35370455001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	101	104	3	40	
4-Bromofluorobenzene (S)	%	99	97	3	40	
Toluene-d8 (S)	%	99	100	2	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

QC Batch: 424427 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371296003, 35371296007, 35371296008, 35371296009, 35371296010

METHOD BLANK: 2309788 Matrix: Water
Associated Lab Samples: 35371296003, 35371296007, 35371296008, 35371296009, 35371296010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/08/18 11:19	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/08/18 11:19	
Toluene	ug/L	0.50 U	1.0	0.50	02/08/18 11:19	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/08/18 11:19	
1,2-Dichloroethane-d4 (S)	%	101	75-135		02/08/18 11:19	
4-Bromofluorobenzene (S)	%	102	89-111		02/08/18 11:19	
Toluene-d8 (S)	%	100	89-112		02/08/18 11:19	

LABORATORY CONTROL SAMPLE: 2309789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.1	100	70-130	
Ethylbenzene	ug/L	20	21.4	107	70-130	
Toluene	ug/L	20	20.9	104	70-130	
Xylene (Total)	ug/L	60	68.3	114	70-130	
1,2-Dichloroethane-d4 (S)	%			92	75-135	
4-Bromofluorobenzene (S)	%			108	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2311590

Parameter	Units	35370586002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.94 I	20	19.2	91	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.6	93	70-130	
Toluene	ug/L	0.50 U	20	18.3	90	70-130	
Xylene (Total)	ug/L	1.5 U	60	61.9	103	70-130	
1,2-Dichloroethane-d4 (S)	%				96	75-135	
4-Bromofluorobenzene (S)	%				105	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2311589

Parameter	Units	35370586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

SAMPLE DUPLICATE: 2311589

Parameter	Units	35370586001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	105	102	2	40	
4-Bromofluorobenzene (S)	%	100	94	6	40	
Toluene-d8 (S)	%	105	99	6	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

QC Batch: 424760 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35371296004, 35371296005, 35371296011

METHOD BLANK: 2311728 Matrix: Water
Associated Lab Samples: 35371296004, 35371296005, 35371296011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.10 U	1.0	0.10	02/09/18 11:45	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	02/09/18 11:45	
Toluene	ug/L	0.50 U	1.0	0.50	02/09/18 11:45	
Xylene (Total)	ug/L	1.5 U	5.0	1.5	02/09/18 11:45	
1,2-Dichloroethane-d4 (S)	%	103	75-135		02/09/18 11:45	
4-Bromofluorobenzene (S)	%	99	89-111		02/09/18 11:45	
Toluene-d8 (S)	%	99	89-112		02/09/18 11:45	

LABORATORY CONTROL SAMPLE: 2311729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	21.5	107	70-130	
Toluene	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	68.2	114	70-130	
1,2-Dichloroethane-d4 (S)	%			92	75-135	
4-Bromofluorobenzene (S)	%			106	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2313446

Parameter	Units	35371854002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	8.2	20	27.5	96	70-130	
Ethylbenzene	ug/L	70.2	20	90.7	102	70-130	
Toluene	ug/L	2.8	20	21.8	95	70-130	
Xylene (Total)	ug/L	1.5 U	60	69.7	114	70-130	
1,2-Dichloroethane-d4 (S)	%				91	75-135	
4-Bromofluorobenzene (S)	%				110	89-111	
Toluene-d8 (S)	%				101	89-112	

SAMPLE DUPLICATE: 2313445

Parameter	Units	35371854001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.10 U	0.10 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

SAMPLE DUPLICATE: 2313445

Parameter	Units	35371854001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	102	99	3	40	
4-Bromofluorobenzene (S)	%	100	104	4	40	
Toluene-d8 (S)	%	101	98	2	40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

QC Batch: 423300 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35371296001, 35371296002, 35371296003, 35371296004, 35371296005, 35371296007

METHOD BLANK: 2303888 Matrix: Water
Associated Lab Samples: 35371296001, 35371296002, 35371296003, 35371296004, 35371296005, 35371296007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.015 U	2.0	0.015	02/07/18 10:22	
2-Methylnaphthalene	ug/L	0.019 U	2.0	0.019	02/07/18 10:22	
Acenaphthene	ug/L	0.013 U	0.50	0.013	02/07/18 10:22	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	02/07/18 10:22	
Anthracene	ug/L	0.012 U	0.50	0.012	02/07/18 10:22	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	02/07/18 10:22	
Benzo(a)pyrene	ug/L	0.020 U	0.10	0.020	02/07/18 10:22	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	02/07/18 10:22	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	02/07/18 10:22	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	02/07/18 10:22	
Chrysene	ug/L	0.026 U	0.50	0.026	02/07/18 10:22	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	02/07/18 10:22	
Fluoranthene	ug/L	0.018 U	0.50	0.018	02/07/18 10:22	
Fluorene	ug/L	0.016 U	0.50	0.016	02/07/18 10:22	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	02/07/18 10:22	
Naphthalene	ug/L	0.014 U	2.0	0.014	02/07/18 10:22	
Phenanthrene	ug/L	0.018 U	0.50	0.018	02/07/18 10:22	
Pyrene	ug/L	0.019 U	0.50	0.019	02/07/18 10:22	
2-Fluorobiphenyl (S)	%	53	33-101		02/07/18 10:22	
p-Terphenyl-d14 (S)	%	63	38-115		02/07/18 10:22	

LABORATORY CONTROL SAMPLE: 2303889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.4	69	33-118	
2-Methylnaphthalene	ug/L	5	2.6	52	34-104	
Acenaphthene	ug/L	5	3.3	67	38-109	
Acenaphthylene	ug/L	5	2.3	46	31-115	
Anthracene	ug/L	5	3.1	62	38-111	
Benzo(a)anthracene	ug/L	5	3.1	61	36-110	
Benzo(a)pyrene	ug/L	5	4.4	88	27-107	
Benzo(b)fluoranthene	ug/L	5	3.6	73	32-119	
Benzo(g,h,i)perylene	ug/L	5	3.4	67	10-109	
Benzo(k)fluoranthene	ug/L	5	5.0	100	28-118	
Chrysene	ug/L	5	6.4	127	33-130	
Dibenz(a,h)anthracene	ug/L	5	3.2	65	10-104	
Fluoranthene	ug/L	5	3.6	73	45-115	
Fluorene	ug/L	5	3.2	64	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.3	66	10-104	
Naphthalene	ug/L	5	2.9	58	38-100	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

LABORATORY CONTROL SAMPLE: 2303889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	3.4	68	41-106	
Pyrene	ug/L	5	3.8	77	45-115	
2-Fluorobiphenyl (S)	%			59	33-101	
p-Terphenyl-d14 (S)	%			70	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305120 2305121

Parameter	Units	35371272010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.015 U	5	5	3.9	3.5	78	70	33-118	11	40	
2-Methylnaphthalene	ug/L	0.019 U	5	5	3.1	2.7	62	54	34-104	14	40	
Acenaphthene	ug/L	0.013 U	5	5	3.9	3.4	78	68	38-109	14	40	
Acenaphthylene	ug/L	0.012 U	5	5	2.7	2.4	55	48	31-115	13	40	
Anthracene	ug/L	0.012 U	5	5	3.7	3.5	74	69	38-111	6	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	3.2	3.3	64	67	36-110	4	40	
Benzo(a)pyrene	ug/L	0.020 U	5	5	4.7	4.3	94	86	27-107	9	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.9	3.4	78	68	32-119	14	40	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	5	4.0	3.4	80	68	10-109	17	40	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5	5.3	5.1	106	102	28-118	5	40	
Chrysene	ug/L	0.026 U	5	5	7.0	6.1	139	123	33-130	13	40	J(M1)
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.0	3.4	79	68	10-104	15	40	
Fluoranthene	ug/L	0.018 U	5	5	3.9	3.7	78	74	45-115	6	40	
Fluorene	ug/L	0.016 U	5	5	3.7	3.3	73	67	41-114	10	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	4.0	3.4	79	68	10-104	15	40	
Naphthalene	ug/L	0.041 I	5	5	3.5	3.0	68	58	38-100	15	40	
Phenanthrene	ug/L	0.018 U	5	5	3.8	3.5	77	69	41-106	10	40	
Pyrene	ug/L	0.019 U	5	5	4.1	3.9	82	78	45-115	5	40	
2-Fluorobiphenyl (S)	%						69	59	33-101			
p-Terphenyl-d14 (S)	%						72	69	38-115			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

QC Batch: 423629 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35371296008, 35371296009, 35371296010, 35371296011

METHOD BLANK: 2305494 Matrix: Water
Associated Lab Samples: 35371296008, 35371296009, 35371296010, 35371296011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.015 U	2.0	0.015	02/08/18 11:38	
2-Methylnaphthalene	ug/L	0.019 U	2.0	0.019	02/08/18 11:38	
Acenaphthene	ug/L	0.013 U	0.50	0.013	02/08/18 11:38	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	02/08/18 11:38	
Anthracene	ug/L	0.012 U	0.50	0.012	02/08/18 11:38	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	02/08/18 11:38	
Benzo(a)pyrene	ug/L	0.020 U	0.10	0.020	02/08/18 11:38	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	02/08/18 11:38	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	02/08/18 11:38	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	02/08/18 11:38	
Chrysene	ug/L	0.026 U	0.50	0.026	02/08/18 11:38	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	02/08/18 11:38	
Fluoranthene	ug/L	0.018 U	0.50	0.018	02/08/18 11:38	
Fluorene	ug/L	0.016 U	0.50	0.016	02/08/18 11:38	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	02/08/18 11:38	
Naphthalene	ug/L	0.029 I	2.0	0.014	02/08/18 11:38	
Phenanthrene	ug/L	0.018 U	0.50	0.018	02/08/18 11:38	
Pyrene	ug/L	0.019 U	0.50	0.019	02/08/18 11:38	
2-Fluorobiphenyl (S)	%	52	33-101		02/08/18 11:38	
p-Terphenyl-d14 (S)	%	75	38-115		02/08/18 11:38	

LABORATORY CONTROL SAMPLE: 2305495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.9	78	33-118	
2-Methylnaphthalene	ug/L	5	3.0	61	34-104	
Acenaphthene	ug/L	5	3.0	60	38-109	
Acenaphthylene	ug/L	5	2.1	41	31-115	
Anthracene	ug/L	5	3.5	69	38-111	
Benzo(a)anthracene	ug/L	5	2.0	40	36-110	
Benzo(a)pyrene	ug/L	5	4.9	98	27-107	
Benzo(b)fluoranthene	ug/L	5	3.1	63	32-119	
Benzo(g,h,i)perylene	ug/L	5	3.5	69	10-109	
Benzo(k)fluoranthene	ug/L	5	5.1	102	28-118	
Chrysene	ug/L	5	7.7	154	33-130	J(L1)
Dibenz(a,h)anthracene	ug/L	5	3.9	77	10-104	
Fluoranthene	ug/L	5	3.4	68	45-115	
Fluorene	ug/L	5	2.8	55	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.5	70	10-104	
Naphthalene	ug/L	5	2.9	58	38-100	

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QUALITY CONTROL DATA

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

LABORATORY CONTROL SAMPLE: 2305495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	2.8	57	41-106	
Pyrene	ug/L	5	3.7	74	45-115	
2-Fluorobiphenyl (S)	%			61	33-101	
p-Terphenyl-d14 (S)	%			71	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2305685 2305686

Parameter	Units	35371780002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.047 I	5	5	4.2	4.1	83	80	33-118	3	40	
2-Methylnaphthalene	ug/L	0.11 U	5	5	3.1	3.0	61	59	34-104	3	40	
Acenaphthene	ug/L	0.013 U	5	5	3.1	2.9	62	58	38-109	5	40	
Acenaphthylene	ug/L	0.012 U	5	5	2.2	2.0	44	41	31-115	7	40	
Anthracene	ug/L	0.012 U	5	5	3.5	3.1	70	63	38-111	10	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	2.5	2.3	50	46	36-110	10	40	
Benzo(a)pyrene	ug/L	0.020 U	5	5	5.1	4.9	103	97	27-107	5	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.6	3.0	71	60	32-119	18	40	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	5	3.7	3.5	75	71	10-109	6	40	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5	5.5	5.3	110	106	28-118	4	40	
Chrysene	ug/L	0.026 U	5	5	7.7	7.3	154	146	33-130	5	40	J(M1)
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.0	4.0	79	79	10-104	0	40	
Fluoranthene	ug/L	0.018 U	5	5	3.9	3.6	79	72	45-115	8	40	
Fluorene	ug/L	0.016 U	5	5	3.0	2.5	60	50	41-114	18	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	3.5	3.4	70	69	10-104	2	40	
Naphthalene	ug/L	0.15 I	5	5	2.9	2.7	56	50	38-100	9	40	
Phenanthrene	ug/L	0.018 U	5	5	3.1	3.2	63	65	41-106	3	40	
Pyrene	ug/L	0.019 U	5	5	4.2	3.8	83	77	45-115	8	40	
2-Fluorobiphenyl (S)	%						64	60	33-101			
p-Terphenyl-d14 (S)	%						80	69	38-115			

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REPORT OF LABORATORY ANALYSIS

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110 South Bayview Blvd.
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QUALIFIERS

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
CU	The continuing calibration for this analyte is above laboratory acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(S0)	Estimated Value. Surrogate recovery outside laboratory control limits.
V	Indicates that the analyte was detected in both the sample and the associated method blank.

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former 3D Oil Distribution
Pace Project No.: 35371296

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35371296001	**MW-3**				
35371296002	**MW-7**				
35371296003	**MW-8**				
35371296004	**DMW-2**				
35371296005	**MW-9**				
35371296007	**MW-13**				
35371296008	**MW-14**				
35371296009	**DMW-1R**				
35371296010	**MW-10R**				
35371296011	**MW-6**				
35371296001	**MW-3**	EPA 3510	423300	EPA 8270 by SIM	424045
35371296002	**MW-7**	EPA 3510	423300	EPA 8270 by SIM	424045
35371296003	**MW-8**	EPA 3510	423300	EPA 8270 by SIM	424045
35371296004	**DMW-2**	EPA 3510	423300	EPA 8270 by SIM	424045
35371296005	**MW-9**	EPA 3510	423300	EPA 8270 by SIM	424045
35371296007	**MW-13**	EPA 3510	423300	EPA 8270 by SIM	424045
35371296008	**MW-14**	EPA 3510	423629	EPA 8270 by SIM	424391
35371296009	**DMW-1R**	EPA 3510	423629	EPA 8270 by SIM	424391
35371296010	**MW-10R**	EPA 3510	423629	EPA 8270 by SIM	424391
35371296011	**MW-6**	EPA 3510	423629	EPA 8270 by SIM	424391
35371296001	**MW-3**	EPA 8260	424300		
35371296002	**MW-7**	EPA 8260	424300		
35371296003	**MW-8**	EPA 8260	424427		
35371296004	**DMW-2**	EPA 8260	424760		
35371296005	**MW-9**	EPA 8260	424760		
35371296007	**MW-13**	EPA 8260	424427		
35371296008	**MW-14**	EPA 8260	424427		
35371296009	**DMW-1R**	EPA 8260	424427		
35371296010	**MW-10R**	EPA 8260	424427		
35371296011	**MW-6**	EPA 8260	424760		
35371296012	**TRIP BLANKS**	EPA 8260	424300		

WO# : 35371296

35371296

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Cardno	Report To:	Beth Norman	Attention:	
Address:	2420 Lakeshore Drive	Copy To:		Company Name:	
Suite 100, Tallahassee, FL 32312				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Former 3D Oil Distribution	Pace Project Manager:	lori.palmer@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	8106 line 3

Regulatory Agency
State / Location
FL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Trip BLANK	8260 BTEX	PAH by 8270 SIM (low vol)	PAH by 8270 SIM (low vol)	Residual Chlorine (Y/N)
1	Mw-3	W		1/31/18	852				4											3	1			
2	Mw-7			1/31/18	941				4											3	1			
3	Mw-8			1/31/18	1029				4											3	1			
4	DMW-2			1/31/18	1238				4											3	1			
5	Mw-9			1/31/18	1325				4											3	1			
6	MS/MSD mw 9			1/31/18	1327				4													4		
7	Mw-13			1/31/18	1414				4											3	1			
8	Mw-14			1/31/18	1501				4											3	1			
9	DMW-1R			1/31/18	1640				4											3	1			
10	Mw-10R			1/31/18	1728				4											3	1			
11	Mw-6			1/31/18	1819				4											3	1			
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Empty Containers		1/31/18	1520							
		2/1/18	1136		2/1	11:36	6.6	Y	N	N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BOB Howell

SIGNATURE of SAMPLER: [signature] DATE Signed: 1/31/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35371296

Project Manager: PM: LAP Due Date: 02/08/18

Client: CLIENT: 37-CATBCLE

Date and Initials of person:
Examining contents: NMP
Label:
Deliver:
pH:

Thermometer Used: T-301 Date: 2-1 Time: 1136 Initials: NMP

State of Origin: _____

Cooler #1 Temp.°C	6.6 (Visual)	+.0 (Correction Factor)	6.6 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	3.7 (Visual)	T.O (Correction Factor)	3.7 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other_____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other_____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☑ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Samples shorted to lab (If Yes, complete) Shorted Date:_____ Shorted Time:_____ Qty:_____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☑ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☑ N/A	Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted:_____ Date/Time:_____

Comments/ Resolution (use back for additional comments):_____

Project Manager Review:_____ Date:_____

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: **Facility Name:** **See notes at end of table.**

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOAs	MTBE	EDB	1,2-Di-chloro-ethane	Total Arsenic	Cadmium	Total Chro-mium	Total Lead
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
SB-1	01/29/2018	0.10 U	0.50 U	**0.70 I**	1.5 U	**0.70**	NS	NS	NS	NS	NS	NS	NS
SB-10	01/30/2018	0.10 U	**26.8**	**135**	**457**	**619**	NS	NS	NS	NS	NS	NS	NS
SB-11	01/30/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
SB-2	01/29/2018	0.10 U	0.50 U	**162**	**492**	**654**	NS	NS	NS	NS	NS	NS	NS
SB-3	01/29/2018	**1.0**	**9.6**	**1270**	**1370**	**2650**	NS	NS	NS	NS	NS	NS	NS
SB-4	01/30/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
SB-5	01/30/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
SB-6	01/30/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
SB-7	01/30/2018	**0.52 I**	**30.4**	**382**	**1780**	**2190**	NS	NS	NS	NS	NS	NS	NS
SB-8	01/30/2018	**1.3**	**6.8**	**771**	**1310**	**2090**	NS	NS	NS	NS	NS	NS	NS
SB-9	01/30/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
Trip Blank	01/30/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
GCTLs		1	40	30	20	NA	20	0.02	3	10	5	100	15
NADCs		100	400	300	200	NA	200	2	300	100	50	1000	150

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: **Facility Name:** **See notes at end of table.**

Sample		TRPHs	Naph-thalene	1-Methyl-naph-thalene	2-Methyl-naph-thalene	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo (g,h,i) perylene	Fluoran-thene	Fluorene	Phenan-threne	Pyrene	Benzo (a) pyrene	Benzo (a) anthra-cene	Benzo (b) fluoran-thene	Benzo (k) fluoran-thene	Chrysene	Dibenz (a,h) anthra-cene	Indeno (1,2,3-cd) pyrene
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
SB-1	01/29/2018	NS	**13.5**	**15.8**	**19.9**	**0.47 I**	**0.076 I**	0.012 U	0.042 U	0.018 U	**0.30 I**	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-10	01/30/2018	NS	**52.0**	**71.3**	**87.3**	**0.44 I**	**0.38 I**	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-11	01/30/2018	NS	**0.87 I**	**0.71 I**	**0.99 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	**0.026 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-2	01/29/2018	NS	**143**	**23.8**	**35.2**	**1.1**	**0.20 I**	**0.31 I**	0.042 U	0.018 U	**1.3**	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-3	01/29/2018	NS	**461**	**36.8**	**58.1**	0.013 U	**0.28 I**	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	**0.14 I**	0.12 U
SB-4	01/30/2018	NS	**4.8**	**9.7**	**13.2**	**0.41 I**	**0.095 I**	0.012 U	0.042 U	0.018 U	**0.24 I**	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-5	01/30/2018	NS	**0.23 I**	**3.7**	**3.1**	**0.20 I**	**0.046 I**	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-6	01/30/2018	NS	**0.12 I**	**0.29 I**	**0.30 I**	**0.020 I**	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
SB-7	01/30/2018	NS	**435**	**78.3**	**110**	0.067 U	**0.42 I**	0.060 U	0.21 U	0.090 U	0.078 U	0.092 U	0.093 U	0.10 U	0.28 U	0.13 U	0.12 U	0.13 U	0.65 U	0.61 U
SB-8	01/30/2018	NS	**257**	**46.0**	**66.3**	0.067 U	0.060 U	0.060 U	0.21 U	0.090 U	0.078 U	0.092 U	0.093 U	0.10 U	0.28 U	0.13 U	0.12 U	0.13 U	0.65 U	0.61 U
SB-9	01/30/2018	NS	**0.47 I**	**1.0 I**	**1.2 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	**0.028 I**	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
Trip Blank	01/30/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTLs		5000	14	28	28	20	210	2100	210	280	280	210	210	0.2**	0.05a	0.05a	0.5	4.8	0.005a	0.05a
NADCs		50000	140	280	280	200	2100	21000	2100	2800	2800	2100	2100	20	5	5	50	480	0.5	5

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: **Facility Name:** **See notes at end of table.**

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOAs	MTBE	EDB	1,2-Di-chloro-ethane	Total Arsenic	Cadmium	Total Chro-mium	Total Lead
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
MW-1	02/01/2018	0.10 U	**1.3**	**79.3**	**81.4**	**162**	NS	NS	NS	NS	NS	NS	NS
MW-11	02/01/2018	**0.36 I**	**3.9**	**297**	366	**667**	NS	NS	NS	NS	NS	NS	NS
MW-12	02/01/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
MW-2	02/01/2018	0.10 U	0.50 U	**52.9**	293	**346**	NS	NS	NS	NS	NS	NS	NS
MW-4	02/01/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
MW-5	02/01/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
TRIP BLANK	02/01/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	0.50 U	NS	NS	NS	NS	NS	NS
GCTLs		1	40	30	20	NA	20	0.02	3	10	5	100	15
NADCs		100	400	300	200	NA	200	2	300	100	50	1000	150

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: **Facility Name:** **See notes at end of table.**

Sample		TRPHs	Naph-thalene	1-Methyl-naph-thalene	2-Methyl-naph-thalene	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo (g,h,i) perylene	Fluoran-thene	Fluorene	Phenan-threne	Pyrene	Benzo (a) pyrene	Benzo (a) anthra-cene	Benzo (b) fluoran-thene	Benzo (k) fluoran-thene	Chrysene	Dibenz (a,h) anthra-cene	Indeno (1,2,3-cd) pyrene
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
MW-1	02/01/2018	NS	**29.3**	**3.8**	**4.8**	0.013 U	0.012 U	0.012 U	**0.083 I**	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-11	02/01/2018	NS	**79.7**	**17.9**	**26.4**	**0.65**	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-12	02/01/2018	NS	**0.069 I**	**0.034 I**	**0.071 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-2	02/01/2018	NS	**61.3**	**29.9**	**40.4**	**0.34 I**	0.012 U	0.012 U	0.042 U	0.018 U	**0.58**	**0.28 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-4	02/01/2018	NS	**0.16 I**	**0.064 I**	**0.11 I**	0.013 U	0.012 U	**0.029 I**	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-5	02/01/2018	NS	**0.10 I**	**0.025 I**	**0.038 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	**0.045 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
TRIP BLANK	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTLs		5000	14	28	28	20	210	2100	210	280	280	210	210	0.2**	0.05a	0.05a	0.5	4.8	0.005a	0.05a
NADCs		50000	140	280	280	200	2100	21000	2100	2800	2800	2100	2100	20	5	5	50	480	0.5	5

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - Other Contaminants not listed in Chapter 62-770, F.A.C.

Facility ID#: **Facility Name:**

See notes at end of table.

Sample		1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	tert-Butyl alcohol	ETBE	TAME	DIPE	Ethanol	Cumene (Isopropyl benzene)	Depth to Water	Field Specific Conductance	Field Temperature	Field pH	Oxygen, Dissolved	REDOX	Turbidity
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
MW-1	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.60**	**248**	**21.56**	**6.60**	**0.33**	**-95.7**	**19.6**
MW-11	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	**5.84**	**325**	**21.73**	**6.78**	**0.35**	**-140.9**	
MW-12	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	**3.37**	**1383**	**20.33**	**6.94**	**0.86**	**-108.6**	**4.31**
MW-2	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.00**	**354**	**20.78**	**6.16**	**0.34**	**-179.9**	**8.69**
MW-4	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.32**	**218**	**20.16**	**6.70**	**0.41**	**-22.2**	**3.53**
MW-5	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.35**	**173**	**21.28**	**6.80**	**0.99**	**+13.4**	**3.69**
TRIP BLANK	02/01/2018	NS	NS	NS	NS	NS	NS	NS	NS							
GCTLs		10	10	1400	NA	NA	NA	10000	.8	NA	NA	NA	NA	NA	NA	NA
NADCs		100	100	14000	10000	5000	10000	100000	8	NA	NA	NA	NA	NA	NA	NA

Notes:

NA= Not Available

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: **Facility Name:** **See notes at end of table.**

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOAs	MTBE	EDB	1,2-Di-chloro-ethane	Total Arsenic	Cadmium	Total Chro-mium	Total Lead
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
DMW-1R	01/31/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
DMW-2	01/31/2018	0.10 U	0.50 U	**2.4**	**2.8 I**	**5.2**	NS	NS	NS	NS	NS	NS	NS
MW-10R	01/31/2018	0.10 U	**22.1**	**288**	**683**	**993**	NS	NS	NS	NS	NS	NS	NS
MW-13	01/31/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
MW-14	01/31/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
MW-3	01/31/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
MW-6	01/31/2018	0.10 U	0.50 U	**3.5**	**5.7**	**9.2**	NS	NS	NS	NS	NS	NS	NS
MW-7	01/31/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
MW-8	01/31/2018	0.10 U	**0.96 I**	**164**	**229**	**394**	NS	NS	NS	NS	NS	NS	NS
MW-9	01/31/2018	0.10 U	0.50 U	**0.79 I**	1.5 U	**0.79**	NS	NS	NS	NS	NS	NS	NS
TRIP BLANKS	01/31/2018	0.10 U	0.50 U	0.50 U	1.5 U	1.5 U	NS	NS	NS	NS	NS	NS	NS
GCTLs		1	40	30	20	NA	20	0.02	3	10	5	100	15
NADCs		100	400	300	200	NA	200	2	300	100	50	1000	150

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: **Facility Name:** **See notes at end of table.**

Sample		TRPHs	Naph-thalene	1-Methyl-naph-thalene	2-Methyl-naph-thalene	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo (g,h,i) perylene	Fluoran-thene	Fluorene	Phenan-threne	Pyrene	Benzo (a) pyrene	Benzo (a) anthra-cene	Benzo (b) fluoran-thene	Benzo (k) fluoran-thene	Chrysene	Dibenz (a,h) anthra-cene	Indeno (1,2,3-cd) pyrene
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
DMW-1R	01/31/2018	NS	**0.14 I**	**0.030 I**	**0.057 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
DMW-2	01/31/2018	NS	**2.0**	**0.73 I**	**0.86 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	**0.10 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-10R	01/31/2018	NS	0.026 U	**35.6**	**49.4**	**0.19 I**	**0.098 I**	0.012 U	0.042 U	0.018 U	**0.40 I**	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-13	01/31/2018	NS	**0.10 I**	**0.031 I**	**0.035 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	**0.024 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-14	01/31/2018	NS	**0.13 I**	**0.036 I**	**0.076 I**	0.013 U	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	**0.078 I**	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-3	01/31/2018	NS	**1.7 I**	**4.0**	**4.8**	**3.7**	0.012 U	**2.3**	0.042 U	**2.6**	**0.21 I**	**6.0**	**1.1**	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-6	01/31/2018	NS	**1.9 I**	**1.0 I**	**1.4 I**	**0.020 I**	0.012 U	0.012 U	0.042 U	0.018 U	0.016 U	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-7	01/31/2018	NS	**0.17 I**	**0.16 I**	**0.20 I**	**1.4**	0.012 U	0.012 U	0.042 U	**0.030 I**	0.016 U	**0.20 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-8	01/31/2018	NS	**128**	**26.5**	**37.2**	**0.82**	0.012 U	0.012 U	0.042 U	0.018 U	**0.37 I**	0.018 U	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
MW-9	01/31/2018	NS	**1.0 I**	**1.8 I**	**1.5 I**	0.013 U	0.012 U	**0.031 I**	0.042 U	0.018 U	**0.032 I**	**0.043 I**	0.019 U	0.020 U	0.055 U	0.027 U	0.023 U	0.026 U	0.13 U	0.12 U
TRIP BLANKS	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTLs		5000	14	28	28	20	210	2100	210	280	280	210	210	0.2**	0.05a	0.05a	0.5	4.8	0.005a	0.05a
NADCs		50000	140	280	280	200	2100	21000	2100	2800	2800	2100	2100	20	5	5	50	480	0.5	5

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE _: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - Other Contaminants not listed in Chapter 62-770, F.A.C.

Facility ID#: **Facility Name:**

See notes at end of table.

Sample		1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	tert-Butyl alcohol	ETBE	TAME	DIPE	Ethanol	Cumene (Isopropyl benzene)	Depth to Water	Field Specific Conductance	Field Temperature	Field pH	Oxygen, Dissolved	REDOX	Turbidity
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
DMW-1R	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.41**	**666**	**21.91**	**8.73**	**3.73**	**+73.9**	**2.71**
DMW-2	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**5.34**	**1016**	**21.65**	**7.49**	**0.88**	**-5.9**	**3.64**
MW-10R	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.07**	**630**	**21.60**	**7.27**	**0.31**	**-308.5**	**12.12**
MW-13	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.39**	**282**	**22.35**	**6.73**	**4.13**	**+67.8**	**17.2**
MW-14	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.39**	**253**	**22.21**	**6.78**	**2.77**	**+87.0**	**15.2**
MW-3	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**6.20**	**199**	**19.95**	**5.87**	**0.31**	**-86.4**	**4.26**
MW-6	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**5.39**	**435**	**21.82**	**6.03**	**0.25**	**-50.2**	**4.69**
MW-7	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**5.34**	**315**	**21.61**	**6.51**	**0.29**	**-33.1**	**5.46**
MW-8	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**5.33**	**496**	**20.36**	**6.25**	**0.24**	**-184.3**	**5.05**
MW-9	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS	**5.15**	**450**	**20.89**	**6.67**	**0.26**	**-30.4**	**9.30**
TRIP BLANKS	01/31/2018	NS	NS	NS	NS	NS	NS	NS	NS							
GCTLs		10	10	1400	NA	NA	NA	10000	.8	NA	NA	NA	NA	NA	NA	NA
NADCs		100	100	14000	10000	5000	10000	100000	8	NA	NA	NA	NA	NA	NA	NA

Notes:

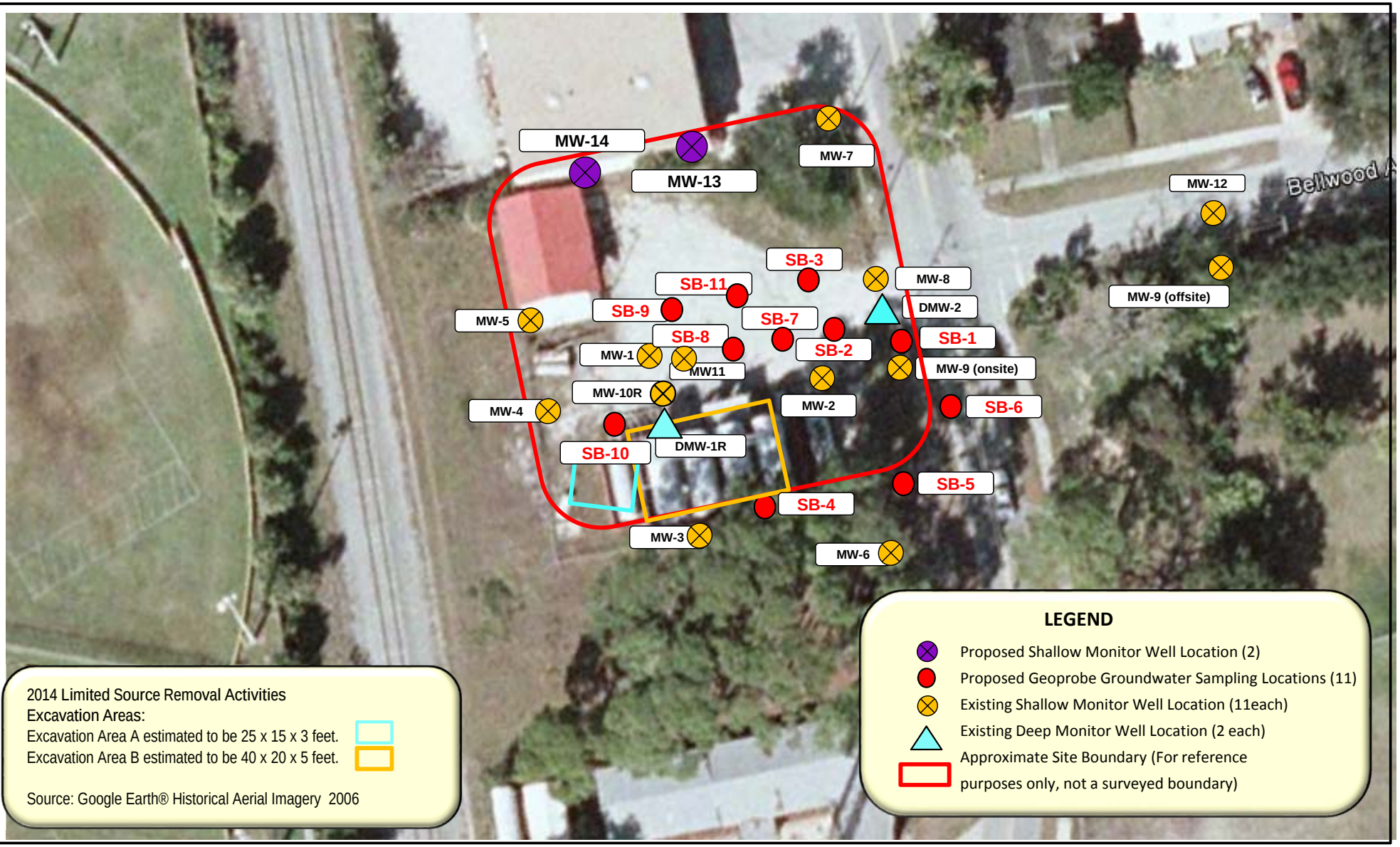
NA= Not Available

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table I of Chapter 62-777, F.A.C.

Exceeds GCTL Limit

Exceeds NADC Limit



Cardno
Shaping the Future

Not to Scale

Former 3D Oil Distribution Facility
1744 Segrave Street
South Daytona, Volusia County, Florida
Parcel ID No. 44-15-33-01-04-0010
FDEP Contract No. HW-556

Figure 1
Proposed Monitoring Well Installation and Plume Delineation Map

INTERIM DELIVERABLE

Former 3-D Oil Distribution Facility

Additional Assessment - Monitor Well Installation, Survey and Groundwater Sampling

Soil Boring Logs

BORING LOG

Boring/Well Number: MW-13	Permit Number:	FDEP Facility Identification Number:
Site Name: 3D OIL / South Daytona	Borehole Start Date: 1/29/18 End Date: 1/29/18	Borehole Start Time: 926 ☐ AM ☐ PM End Time: 1038 ☐ AM ☐ PM
Environmental Contractor: Cardno	Geologist's Name:	Environmental Technician's Name: Boz Howell
Drilling Company: Hoss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 8
Drilling Method(s): Geoprobe 7822 DT	Apparent Borehole DTW (in feet from soil moisture content): 7 1/2	Measured Well DTW (in feet after water recharges in well):
Borehole Completion (check one): ☑ Well ☑ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand		OVA (list model and check type): ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" grass + organic matter + tannish + white Fine grain sand — Dry NO ODOR		D	
						0	2	Beige Fine grain sand		D	
						0	3			D	
HA						0	4			D	
						0	5			D	
Geoprobe						0	6 7			D	
						0	8 9	Beige Fine Grain Sand — Moist / wet NO ODOR		M W	moist @ 7 1/2 wet @ 8ft
						0	10 11	Beige Fine Grain Sand — wet NO ODOR		W	
							12				

Sample Type Codes: **PH** = Post Hole, **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube, **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:
MW-13		3D-OIL / S. Dayton	1/29/18 End Date: 1/29/18

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	13	SAA wet NO ODOR		W	
Geoprobe						1.2	14	@14-15 wet white fine Silica grain SAND ODOR		W	
							15				
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: MW-14	Permit Number:		FDEP Facility Identification Number:
Site Name: 3D OIL - South Daytona	Borehole Start Date: 1/29/18 End Date: 1/29/18	Borehole Start Time: 1042 ☐ AM ☐ PM End Time: 1040 ☐ AM ☐ PM	
Environmental Contractor: Cardno	Geologist's Name:		Environmental Technician's Name: Bot Howell
Drilling Company: Huss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 8	Borehole Depth (feet): 15
Drilling Method(s): Geoprobe 7822 DT	Apparent Borehole DTW (in feet from soil moisture content): 7 1/2	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☑ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
								1" grass + organic matter			
						0	1	Beige to white Fine grain sand Dry No odor		D	
						0	2	Beige Fine Grain Sand		D	
						0	3	SAA		D	
HA						0	4	SAA		D	
						0	5	SAA		D	
						0	6	Beige Fine Grain Sand		D	
						0	7	SAA moist No odor		M	moist @ 7 1/2
Geoprobe						0	8	SAA wet No odor		W	
						0	9	Medium Brown Fine Grain Sand		W	wet @ 8
						0	10	SAA		W	
						0	11	SAA		W	
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:
MW-14		3D-OIL / S. Daytona	1/29/18 End Date: 1/29/18

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	13	tan fine grain sand wet NO ODOR		W	
Geoprobe						0	14 15	Beige + white fine grain sand wet sulfide ODOR		W	
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon, **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-1		

Site Name:	Borehole Start Date: 1/29/18	Borehole Start Time: 1300 ☐ AM ☒ PM
3D-OIL / S. Daytona	End Date: 1/29/18	End Time: 1314 ☐ AM ☒ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Cardno		Bob Howell

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Huss	N/A	3	10

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Geoprobe	6		☐ FID ☒ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" grass + organics / whitish gray fine sand — dry, no odor		D	
						0.7	2	Beige fine Sand		D	
						0.7	3			D	
HA						0.4	4			D	
						0	5			D	
						0	6	light gray fine sand — moist, slight odor		M	
Geoprobe						0.1	7	SAA		M	
						1.3	8	Beige Fine Sand		M	
						2.8	9	SAA		M	H2O Sample @ 1325
						1.3	10	SAA — moist, petroleum odor		M	
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon, **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet, **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-2		

Site Name:	Borehole Start Date: 1/29/18	Borehole Start Time: 1425 ☐ AM ☒ PM
3D-OIL / S. Daytona	End Date: 1/29/18	End Time: 1440 ☐ AM ☒ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Cardno		Bob Howell

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Huss	N/A	3	10

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content): moist @ 5½	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☒ PID
Geoprobe			

Disposition of Drill Cuttings [check method(s)]: ☒ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☒ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" grass + organic matter Dark gray fine sand to 1/2 ft Lt gray F. S. 1/2 → 1 Ft. Dry no odor		D	
						0	2	Beige fine sand		D	
						0	3	SAA		D	
HA						0	4	SAA		D	
						0	5	SAA		D	
						0	6	SAA Moist no odor		M	moist @ 5½ ft.
Geoprobe						1.0	7	SAA		M	
						11.8	8	@ 8½ Medium Brown fine sand Moist petroleum odor		M	
						26.2	9			M	H2O sample @ 1450
						84.8	10			M	
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-3	Permit Number:		FDEP Facility Identification Number:
Site Name: 3D-OIL / S. Daytona	Borehole Start Date: 1/29/18 End Date: 1/29/18	Borehole Start Time: 1509 ☐ AM ☑ PM End Time: 1522 ☐ AM ☑ PM	
Environmental Contractor: Cardno	Geologist's Name:		Environmental Technician's Name: Bob Harrell
Drilling Company: Huss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3	Borehole Depth (feet): 10
Drilling Method(s): Geoprobe	Apparent Borehole DTW (in feet from soil moisture content): Moist 5'1/2	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" Grass + Rocks Dry Lt. gray fine sand NO ODOR		D	
						0	2	Beige Fine Grain Sand		D	
						0	3	SAA		D	
						0	4	SAA		D	
HA						0	5	SAA		D	
Geoprobe						0	6	SAA Moist NO ODOR		M	moist @ 5 1/2
						1.7	7	SAA		M	
						1.9	8	SAA		M	
						49.2	9	SAA moist petroleum odor		M	
						144.3	10	SAA moist petroleum odor		M	H2O sample @ 1450 1545
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-4		

Site Name:	Borehole Start Date: 1/30/18	Borehole Start Time: 735 ☐AM ☐PM
3D-OIL / S. Daytona	End Date: 1/30/18	End Time: 750 ☐AM ☐PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Cardno		Bob Howell

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Huss	N/A	3	10

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Geoprobe	6		☐FID ☑PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						2.0	1	1" grass + organics 0-1½ ft dark gray fine sand 1½ to 4 ft white Fine Sand. Dry No odor		D	
						4.7	2	Beige Fine Grain Sand		D	
						4.3	3	SAA		D	
HA						1.8	4	SAA		D	
						2.4	5	SAA		D	
						0	6	Beige Fine Grain Sand Moist No odor		M	
Geoprobe						0	7	White Fine grain sand		M	
						0	8	SAA		M	
						0	9	SAA		M	
						21.8	10	Light Brown Fine grain sand moist petroleum odor		M	Sampled @ 805
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-5		

Site Name:	Borehole Start Date: 1/30/18	Borehole Start Time: 819 ☑ AM ☐ PM
3D-OIL / S, Daytona	End Date: 1/30/18	End Time: 826 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Cardno		Bob Howell

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Huss	N/A	3	10

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Geoprobe	5 1/2		☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						12.5	1	1" grass + organics — Dry Dark gray Fine grain sand — No odor		D	
						1.0	2	Beige Fine Grain Sand		D	
						9.0	3	SAA		D	
HA						1.9	4	SAA		D	
						7.6	5	SAA		D	
						0	6	Light Gray Fine Grain Sand — moist. No odor; wet No odor		M / W	moist @ 5 1/2
Geoprobe						0	7	Beige Fine Grain Sand — wet No odor		W	wet @ 6-10
						0	8	SAA		W	
						0.3	9	SAA		W	
						1.5	10	Light Beige Fine Grain Sand		W	Sampled @ 849
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SB-6	Permit Number:		FDEP Facility Identification Number:
Site Name: 3D-OIL / S. Daytona	Borehole Start Date: 1/30/18 End Date: 1/30/18	Borehole Start Time: 900 ☑ AM ☐ PM End Time: 910 ☑ AM ☐ PM	
Environmental Contractor: Cardno	Geologist's Name:		Environmental Technician's Name: Bob Howell
Drilling Company: Huss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3	Borehole Depth (feet): 10
Drilling Method(s): Hand Auger only	Apparent Borehole DTW (in feet from soil moisture content): 5 1/2	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						1.8	1	1" grass + ORGANICS white fine grain sand Dry NO ODOR		D	
						0	2	Beige Fine Grain Sand		D	
						0	3	SAA		D	
						0	4	SAA		D	
						0	5	SAA Dry NO ODOR moist NO ODOR		D M	Moist @ 5 1/2
						0	6	Light Grey Fine Grain Sand wet NO ODOR		W	
						0	7	SAA		W	wet @ 6-10
						0	8	SAA		W	
						0	9	SAA		W	
						0	10	SAA		W	Sample @ 925
							11				
							12				

All Hand Augers Due To over-Head Powerlines

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist, **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-7	Permit Number:		FDEP Facility Identification Number:
Site Name: 3D OIL / S. Daytona	Borehole Start Date: 1/30/18 End Date: 1/30/18	Borehole Start Time: 936 ☑ AM ☐ PM End Time: 946 ☑ AM ☐ PM	
Environmental Contractor: Cardno	Geologist's Name:		Environmental Technician's Name: Bob Howell
Drilling Company: Huss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3	Borehole Depth (feet): 10
Drilling Method(s): Geoprobe	Apparent Borehole DTW (in feet from soil moisture content): 5 1/2	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" Grass + ORGANICS Beige tan silt mix F.G.S. Dry NO ODOR		D	
						0	2	SAA		D	
						0	3	Beige Fine Grain Sand		D	
						0	4	SAA		D	
HA						0	5	SAA		D	moist @ 5 1/2 ft
Geoprobe						1.1	6	Beige Fine Grain Sand moist NO ODOR		D M	
						1.8	7	Light Gray Fine Grain Sand		M	
						73.3	8	Medium Brown Fine Grain Sand moist petrol odor		M	
						61.8	9	Beige Fine Grain Sand wet petrol odor		W	wet @ 9 ft. to 10 ft sample @ 1005
						55.6	10	Medium Brown Fine Grain Sand wet petrol odor		W	
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-8		

Site Name:	Borehole Start Date: 1/30/18	Borehole Start Time: 1012 ☑ AM ☐ PM
3D-OIL / S. Daytona	End Date: 1/30/18	End Time: 1026 ☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Cardno		Bob Howell

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Huss	N/A	3	10

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Geoprobe	6		☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" Grass + organics Beige mixed w/ white F. G. S. Dry No odor		D	
						0	2	SAA		D	
						0	3	Beige Fine Grain Sand		D	
						0	4	SAA		D	
HA						0	5	SAA		D	
Geoprobe						6.8	6	Light Beige Fine Grain Sand moist No odor		M	Moist 6-10ft.
						1.1	7	Light Gray Fine Grain Sand moist No odor		M	
						12.6	8	SAA moist petroleum odor		M	
						41.1	9	Light Brown Fine Grain Sand moist petrol. odor		M	
						98.1	10	Medium Brown Fine Grain Sand moist petrol. odor		M	Sampled @ 1045
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SB-9	Permit Number:		FDEP Facility Identification Number:
Site Name: 3D	Borehole Start Date: 1/30/18 End Date: 1/30/18	Borehole Start Time: 1059 ☑ AM ☐ PM End Time: 1107 ☑ AM ☐ PM	
Environmental Contractor: Cardno	Geologist's Name:		Environmental Technician's Name: Bob Howell
Drilling Company: Huss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3	Borehole Depth (feet): 10
Drilling Method(s): Geoprobe	Apparent Borehole DTW (in feet from soil moisture content): 6	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" Grass + ORGANICS Beige to white Mixed F, G, S. Dry No odor		D	
						0	2	Beige Fine Grain Sand		D	
						0	3	SAA		D	
						0	4	SAA		D	
HA						0	5	SAA		D	
Geoprobe						0	6	@ 6 1/2 Light Gray Fine Grain Sand moist No odor		M	Moist @ 6-10
						0	7	@ 7 1/2 → 8 1/2 Medium gray Fine Grain Sand		M	
						0	8	8 1/2 → 10 ~~Medium Gray~~ Beige Fine Grain SAND		M	
						0	9			M	H2O Sampled @ 1125
						0	10			M	
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-10	Permit Number:		FDEP Facility Identification Number:
Site Name: 3D-OIL / S. Daytona	Borehole Start Date: 1/30/18 End Date: 1/30/18	Borehole Start Time: 1135 ☑ AM ☐ PM End Time: 1145 ☑ AM ☐ PM	
Environmental Contractor: Cardno	Geologist's Name:		Environmental Technician's Name: Bob Howell
Drilling Company: Huss	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3	Borehole Depth (feet): 10
Drilling Method(s): Geoprobe	Apparent Borehole DTW (in feet from soil moisture content): 6½	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" Grass + ORGANICS Dry Lt. Gray F, G, S NO ODOR		D	
						0	2	SAA		D	
						0	3	Beige Fine Grain Sand		D	
HA						0	4	SAA		D	
						0	5	SAA		D	Moist @ 6½ → 10
						0	6	SAA		D M	
Geoprobe						0.8	7	Light Gray Moist Fine Grain Sand		M	
						3.8	8	Medium Brown NO ODOR Fine Grain Sand		M	
						244	9	Dark Brown Moist Fine Grain Sand petroleum odor		M	
						329	10	Medium Brown Moist F, G, S. petrol. odor		M	H_2O Sample @ 1203
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon, **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet, **S** = Saturated

BORING LOG

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Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-11		

Site Name:	Borehole Start Date: 1/30/18	Borehole Start Time: 1218 ☐ AM ☑ PM
3D OIL / S. Daytona	End Date: 1/30/18	End Time: 1228 ☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Cardno		Bob Howell

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Huss	N/A	3	10

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☑ PID
Geoprobe	6 1/2		

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) Sand

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
						0	1	1" ORGANICS + Grass 0-1/2 ft white FGS 1/2 → 1 ft Beige FGS — Dry, NO ODOR		D	
						0	2	Beige Fine Grain Sand		D	
						0	3	SAA		D	
						0	4	SAA		D	
HA						0	5	SAA		D	
						0	6	Beige F. G. S		D	Moist @ 6 1/2 → 10 ft
Geoprobe						0.4	7	Light Gray Fine Grain Sand — moist			
						0.2	8	Beige Fine Grain Sand — NO ODOR			
						0.3	9	Medium Brown Fine Grain Sand			H2O Sample @ 1245
						0.4	10	Dark Brown Fine Grain Sand			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon, **ST** = Shelby Tube, **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry, **M** = Moist, **W** = Wet; **S** = Saturated